March 1989

RCRA Facility Assessment (RFA) Report for Lenox China, Inc. Tilton Road, Pomona, New Jersey 08240

- A. The Preliminary Assessment (PA) report prepared in January 1986 identified the following Solid Waste Management Units (SWMUs):
 - 1. Glaze Basin Investigations for potential releases from this unit to groundwater and soil are recommended. A RCRA Facility Investigation (RFI) is required.
 - Slip Basin Investigations for potential releases from this unit to groundwater and soil are recommended. A RFI is required.
 - 3. Polishing Lagoon Investigations for potential releases from this unit to groundwater, surface water, and soil are recommended. A RFI is required.
 - 4. Drum Storage Area (Drum Storage Pad) No RFI is required.
 - 5. Land Disposal of Sludge beneath Parking Area (Sludge Disposal Area) Investigations for potential releases to groundwater and soil are recommended. A RFI is required.
 - 6. Underground Effluent Transfer Pipe Investigations for potential releases to groundwater and soil are recommended. A RFI is required.
- B. A Visual Site Inspection (VSI) conducted in January 1986 observed those Solid Waste Management Units (SWMUs) identified in the PA report.
- C. Additional Findings
 - 1. Sludge Degreaser Pit Trichloroethylene (TCE) sludges generated from the manufacturing building are collected at drums stationed in this unit. Filled drums are moved to the Drum Storage Area by a forklift. TCE releases from this unit were documented.
 - 2. Waste Pile During the closure of the Glaze Basin, contaminated materials (leaded glaze) in the west wall of the Glaze Basin was found. NJDEP determined that the contaminated materials are the waste in a separate unit.

- 3. Tilton Road Pond The effluents from the Polishing Lagoon flow to this unit before a discharge to the surface water body. This unit is not lined and potential releases to soil and groundwater should be investigated during a RFI. A SWMU assessment is recommended.
- 4. Equalization Sump The process wastewater was discharged to this sump before treatment in the industrial waste treatment plant or settlement of sludges in the Slip Basin. The unit was concrete walls and bottom, and located adjacent to the manufacturing plant. No information of releases is available for this unit. A SWMU assessment is recommended.
- No. 2 attached to the February 9, 1989 letter to Mr. Barry Tornick from Geraghty & Miller, Inc. shows that sludges from the clarifiers are filtered at this unit for dewatering. No information of releases from this unit is available. A SWMU assessment is required unless otherwise demonstrated to be no releases from this unit.
- 6. New Filter Press Drawing No. 2 attached to the February 9 letter also shows that sludges from the new clarifier are filtered at this unit for dewatering. No information of releases from this unit is available. A SWMU assessment is required unless otherwise demonstrated to be no releases from this unit.
- 7. Piping Figure 10B (Slip Basin Routing Diagram) on page A-25 of the PA report shows effluent transfer pipes connecting the Slip Basin, to the Polishing Basin, and to the Tilton Road Pond. No information of releases from this unit is available. A SWMU assessment is required.
- 8. Underground Storage Tanks In December 1988, NJDEP informed EPA that the Lenox China facility had underground storage tanks located at the north of the manufacturing plant. The tanks were used for storing petroleum hydrocarbons (gasolins). The February 1989 letter indicated that these underground tanks were excavated in July 1987. Analytical data of the samples collected during the excavation from the sidewalls and the surface material at the bottom of excavation were attached in the letter. More detailed documentation for sampling locations, sampling procedures, analytical parameters, and analytical methods is required for demonstration of no releases. A SWMU assessment may be

required if documents are not sufficient to demonstrate no releases.

9. Areas of Stressed Vegetation - During the January 17, 1989 inspection conducted jointly by the U.S. Environmental Protection Agency (EPA) and the New Jersey Department of Environmental Protection (NJDEP), Areas at the north of the Slip Basin were covered with stressed vegetation. During the inspection, the representatives from Lenox indicated that surface waters at the site flow to the areas. A SWMU assessment is required.

D. Recommendations of the RFA Report

- 1. A full RCRA Facility Investigation (RFI) in soil and groundwater is necessary for the Sludge Degreaser Pit, the Sludge Disposal Area, and the Waste Pile;
- 2. A SWMU assessment is required for the Polishing Lagoon, the Tilton Road Pond, the Underground Effluent Transfer Pipe, the Equalization Sump, the Vacuum Filter, the New Filter Press, the Piping, the Underground Storage Tanks, and the Areas of Stressed Vegetation; and
- 3. Corrective actions for the Glaze Basin, the Slip Basin, and the Drum Storage Area will be addressed by State permits or closure approvals.

LENOX CHINA
Tilton Road
Pomona (Galloway Township)
Atlantic County, N.J.

The Lenox China plant, located on 56 acres in Atlantic County, is the largest fine china manufacturing facility in the United States. The factory operates on a continuous basis producing ceramic dinnerware and giftware.

Lenox manufactures the china by blending clay and alumino-silicates, which are coated or glazed with lead glass. Wastes containing leaded glaze have been stored on-site since plant operations began in 1954. Tests on waste materials indicate they contain hazardous waste (lead) as defined by the RCRA regulations.

The waste storage areas include several basins, a drum storage area, and an area where contaminated sludge was placed on the soil and paved over.

A constant check is kept on groundwater and surface water conditions on site by a series of monitor wells which are sampled and analysed quarterly. The surface water is also sampled and analysed.

Although some minor groundwater contamination (slightly elevated lead levels) was noted beneath the contaminated sludge applied to the soil, overall, the site is well maintained and well monitored. There is potential for contamination to move with the groundwater flow, but this writer feels this is highly unlikely given the nature of the contaminants (lead waste) and the fact that the lead is incorporated with low permeability clay.



Preliminary Assessment

for

RCPA Corrective Action Program . .

LENOX CHINA
Tilton Road
Pomona (Galloway Township)
Atlantic County, N.J.

N. J. Department of Environmental Protect Divisions of Environmental Quality Waster Management Water Resources

Prepared by the Division of Waste Maradem Purcan of Hazardom, Waste Planning & Classification November, 1985

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IL SITE NAME AND LOCATION							
OI BITE PARK Angel assesses or discoverages region of sites		i		SPECIFIC LOCAL	in Kenturen		
Lenox China	,		ton Road				
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Fron Trenton - Route 206 South the left.	Fron Trenton - Route 206 South to Route 30 East to Tilton Road, Lenox is on						
III. RESPONSIBLE PARTIES							
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IV. CHARACTERIZATION OF POTENTIAL HAZARD	··········				Septim Co	N TEAM	
DI CHI LITE INSPECTION BY (Chase							
MYES DATE Several DELOC	AL HEALTH OFFR			C STATE	LI D. OTHER	CONTRACTOR	
CONTRAC	TOR NAME(S):	Ger	aghty an	d Miller,	Inc.		
1	J YEARS OF OPERA		1 2				
S A. ACTIVE - □ B INACTIVE □ C UNKNOWN		154	Pre	<u>sent</u>	- UNKNOW	1 	
C4 GESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN OR	ALLEGED						
Lead, trichloroethylene, radio	onucleides	;					
·		(Atta	chments	A-2. A-6.	B-1.2.3	.4)	
(Attachments A-2, A-6, B-1,2,3,4) US CESCHIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/ON POPULATION							
Soil and groundwater contamination							
(Attachments A-33,34,47)							
·							
V. PRIORITY ASSESSMENT							
OT PHORITY FOR INSPECTION (CASE) are a negative change a change of part 2 made from the negative of part 2 made in the negative of the negativ							
VI. INFORMATION AVAILABLE FROM							
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Ken Siet	NJDEP-DWR	!				,609, 292-0424	
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	HSMA	NJDE	P-DWM	609 9	84-3239	L_J_586_	
EPA FONM 2070 12 (7-81)							

I. BASIC PRO	SS/UNIT CHARACTE	RISTICS				PAGE 2			
A. Landfill	1) SWMU TYPE	UN 2) LOCATION	NITS OF THI	IS 4) SIZE	KNOWN OR 5) ALLEGED	RCRA/ NPDES 6) STATUS	COMPLIANCE 7)HISTORY	ERRIS 8) INFO	9) COMPLEM:
B. Surface Impoundmen	t		<u></u>						
C. Waste Pile	<u> </u>		3		Known			yes	
D. Land Treatment Unit	X	K-7	1		Known	N/A		yes	
E. Injection Well	7			·					
F. Incinerato	r				·				
TANKS		•			•		:		_
G.1 Above Ground						· .			
G.2 Undergrou	nd								
H. Container Storage Unit	X Dr <u>um Storage</u> Pad	I-9	6 drums	ea. 30 gal	Known		<u>.</u>	yes	
I. Other	Underground	<u>I-8,9</u>	<u>1 / h</u> a	Unknown	Known	N/A		no	
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Effluent Transfer Pipe								

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SW/!U
TYPE

COMMENT

B.1 Glazer Basin

Location I-10, Size - 60' x 90' x 6'. RCRA Facility Permit No. NJD002325074. Surface impoundment formerly used as a primary settling basin. Presently not used--being decommissioned.

B.2 Slip Basin

Location I-7, J-7. Size - 100' x 200' x 7'. RCRA Facility Permit No. NJD002325074.

Surface impoundment used as a settling basin for process wastes containing less
than 2% lead.

B.3 Polishing Lagoon

Location H-3. Approximate Size - 60' x 90' x 6'. Not a RCRA regulated unit.

Detention lagoon--lead levels are non existent to negligent.

H.1 Drum Storage Pad

Location I-9. Area is paved with an impermeable material and designed to trap

and recycle spilled wastes. Six-30 gallon drums of trichloroethylene waste sludge are

stored here.

SWMU
TYPE

COMENT

D.1 Land disposal of sludge beneath parking area

Location K-7. Approximately 200' x 200'. Waste sludge containing lead was dredged from slip basin and placed here, then covered with asphalt for use as a parking area.

I. Underground
Effluent
Transfer Pipe

Location I-8,9. Approximately 200' long section of pipe used to transfer liquids from glaze basin to slip basin.

SQLID WASTE Glaze Basin MANAGEMENT UNIT B.]

LOCATION	I-10

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iù D. OTHEA	(Spares)	NO OF DRUMS			·		
III. WASTE T	YPE						
CATEGORY	SUBSTANCEN	AME	DI GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
Suu	SLUDGE						· ·
Or.M	OILY WASTE			·			
SOL	SOLVENTS					<u> </u>	···
PSO	PESTICIDES				<u>Leaded gla</u>	ze - total l	ead con-
occ	OTHER ORGANIC CI	HEMICALS			tent betwe	en 35 and 40	percent
·OC	INORGANIC CHEMIC	CALS				e-EPA Hazardo	
ACO	ACIOS				No. D008)	stored in gla	aze basin.
BAS	BASES				:		
MES	HEAVY METALS		1600	tons			
IV. HAZARD	OUS SUBSTANCES	المانات المانات المانات					
UI CATEGOAY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE DIS	POSAL METHOD	05 CONCENTRATION	CONTENTHATION
MES	Lead Waste		7439-92-1	Surface Impoundment-			
MES	Frit (lead/gl	200 00000		glaze basin. Formeriy			
MES	i Frit (leau/gi	ass combas	17439-92-1	used as a		3.	1
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Attachments A-4, 29,30,31 - Geraghty and Miller - Lenox Site Engineering Report.

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SOLID	WASTE	Glaze	Basin
		TINU	

LOCATION	I-10
TYX TAT TON	1-10

PRELIF	. HAZARDOUS WASTE SITE MINARY ASSESSMENT HAZARDOUS CONDITIONS AND INCIDEN	OI STATE OF STE SCACE
IL HAZARDOUS CONDITIONS AND INCIDENTS		
01 & A. GROUNDWATER CONTAMINATION	02 OBSERVED IDATE.	A POTENTIAL C ALEGED
Potential exists for lead waste	to leach through the bottom	of the basin and enter
the groundwater	(Att	achments A-4,29,30,31,1)
05 Relationship to other SMU's:		
01 (. B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 G OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C POTENTIAL E ALEGED
No potential exists.		
05 Relationship to other SMU's:		
01 1. C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED.	02 C OBSERVED IDATE	C) POTENTIAL C. ALLEGED
and the same of th		No. of the control of
No potential exists.		-
05 Relationship to other SMU's:		
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	-02 C: OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	C POTENTIAL L ALLEGED
No potential exists		•
	04 NAHHATIVE DESCRIPTION	ALLEUES
There is a very limited potentic contents by plant employees. (O5 Relationship to other SMU's:	Attachments A-31, 117	
01 12 F CONTAMENATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 D OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	SEPOTENTIAL C ALLEGED
Potential exists for lead waste basin. (Attachments A-4,29,30, 05 Relationship to other SMU's	to leach into the soil thr	pasin.
01 K G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	. 02 () OBSERVED (DATE	ALLEGED
Potential exists for private we	ells in the area (66 wells w	vithin one square mile)
to become contaminated.	(Attachments A-15, 47, J)	
05 Relationship to other SMU's	<u> </u>	
01 % H VYORKER EXPOSURE/MUNRY 03 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED IDATE. 04 NARRATIVE DESCRIPTION) X POTENTIAL IJ ALLEGED
Potential for worker exposure or during unit closure		and recycling operations,31,32)
01 & 1 POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED	02 LEOBSERVEDIDATE 04 NARRATIVE DESCRIPTION) & POTENTIAL JALLEGED
Potential exists via contact w	ith contaminated groundwate (Attachments H,I)	r
05 Rélationhsip to other SMU's	:	

SOLID WASTE Glaze Basin MANAGEMENT UNIT B.1

LOCATION I-10

.♥.EDA PRELIMI	IAZARDOUS WASTE SITE NARY ASSESSMENT AZARDOUS CONDITIONS AND II	OI STAT	TIFICATION E 02 BITE HAMBER
H MAZARDOUS CONDITIONS AND INCIDENTS			
01 [] J. DAMAGE TO FLORA DI NARRATIVE DESCRETION	02 OBSERVED (DATE:	23 C POTENTIA	T D ATTEGED
No potential exists			
05 Relationship to other SMU's:		ĕ ~	
OI DK DAMAGE TO FAMA	02 G OBSERVED (DATE.	C POTENTU	L C ALLEGED
04 NARRATIVE DESCRIPTION DECEMBER OF DESCRIPTION			
No potential exists			
05 Relationship to other SMU's:			_
01 T. L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 CBSERVED (DATE		AL ALLEGED :
No potential exists 05 Relationship to other SMU's:			
01 28 M UNSTABLE CONTAINMENT OF WASTES	02 D OBSERVED (DATE) X POTENT	AL D ALEGED
03 POPULATION POTENTIALLY AFFECTED.	04 NARRATIVE DESCRIPTION		•
Potential unstable containmen	nt since basin is not	lined.(Attach	ments A-4,30,31
01 C N DAMAGE TO OFFSITE PROPERTY 64 NARRATIVE LESCRIPTION	02 - OBSERVED (DATE	D POTENTI	M D WTEGED
No potential exists as a direct re 05 Relationship to other SMU's:_	esult of this basin.	(Attachment H)
01 0 CONTAMINATION OF SEWERS, STORM DRAINS, WWTF 04 NARRATIVE DESCRIPTION	PS 02 O OBSERVED (DATE:	, C POTENT	AL CALLEGED
N/A 05 Relationship to other SMU's:			
01 C P ILLEGAL-UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 () OBSERVED (DATE	POTENTI	M CI MITEGED
N/A .		•	
			•
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALL	EGED HAZARDS		
An underground pipe formerly carri The integrity of this pipe cannot	ied waste liquid from be verified. (Attac	glaze basin to nment H)	o slip basin.
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS			
This unit is currently closed. The according to their RCRA Subpart Gremoved for recycling.	ne company intends to Closure Plan after th	completely clo ne remaining gl	ose this unit laze waste is
V. SOURCES OF INFORMATION (Can ADDRESS POWEREDS O	14 raudos autorios (spaint)		
Attachment A - Geraghty and Miller Attachment H - Lenox On Site Inspe Attachment I - Memo to Lenox File	ection (OSI) - N. Jior	·le	liorle.

LOCATION I-7, J-7

·			ENTIAL HAZARI	DOUS WASTES	HTE	I. IDENTIFICATION	
	<u> </u>		PRELIMINARY	722523WEW.		0131212	
PEP	Α.		PART 2 - WASTE	INFORMATION			
VASTE STA	TES. QUANTITIES, AN	DE WASTE CHANT	TY AT BITE	OS WASTE CHARACTE	NISTICS (Cours do our mon		
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. 01₩£A	(Spores)	NO OF DRUMS		<u> </u>			
WASTETY	PE SUBSTANCE	MAME -	DI GAOSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
VACCORY	SLUCGE						-
SUU	OILY WASTE				ļ		
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PSO	OTHER ORGANIC	CHEMICALS			 	144	L-4-1
000	IN CHORCAMA CHEM			1	Waste mate	rials with a	Lord Porc
·CC	ACIDS	1 3VIC:		<u> </u>	lead_conte	nt of less t	י טטטאן ה <u>שע ל ההיר</u>
	-BASES-				<u> (EPA_Hazar</u>	dous Waste N	n uuo.
BAS MES	HE AVY METALS		unknown		impounded	here	
	OUS SUBSTANCES					05 CONCENTRATION	DO ME ASUME OF
I CATE CORY	OZ SUBSTANC		O3 CAS NUMBER		SPOSAL METHOD	0,00.00	- unit
MES	Lead		7439-92-1		mpoundment-	+	
	Frit-(lead/g	lass com-	7439-92-1	Slip Basir	<u> </u>		+
	pounds)	1033 22		Secondary	<u>settling</u>		
	Nepheline s	vonite	999	basin			+
	Nepheline S (feldsp					_	
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		. 505	ŀ				

SOLID WASTE Slip Basin MANAGEMENT UNIT B 2

LOCATION I-7, J-7

	A TARROUG WASTE SITE	I. IDENTIFICATION
A FINA PRELIMI	MAZARDOUS WASTE SITE NARY ASSESSMENT AZARDOUS CONDITIONS AND INCIDENTS	OT STATE OF SITE PARAGER
		·
L HAZARDOUS CONDITIONS AND INCIDENTS O1 TE A. GROUNDWATER CONTAMPATION	02 D OBSERVED IDATEI	M POTENTIAL C ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
- to other CMII's n.	tachments A-5, I)	
	02 S OBSERVED IDATE	C POTENTIAL C ALLEGED
01 (. B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	,
No potential exists.		
05 Relationship to other SMU's:	02 TOBSERVEDIDATE	CI POTENTIAL C ALLEGED
01 1. C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED.	D4 NARRATIVE DESCRIPTION	
11 12-1 - 2-1-	·	
No potential exists	1	
05 Relationship to other SMU's:		C) HOTENTIAL L ALLEGED
01' . D FIRE EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED	02 C: OBSERVED IDATEI 04 NARRATIVE DESCRIPTION	
No potential exists		
Potential exists for direct cont	act with \$lip Basin contacts (Attachments A-2	by plant employees.
05 Relationship to other SMU's:	(Accacimical of A. E.	
01 X F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED.	02 D OBSERVED IDATE. 1	AC POTENTIAL C ALLEGED
Potential exists for lead waste	(Attachm	he bottom of the basin ents A-5,I)
05 Relationship to other SMU's:		J POTENTIAL L'ALLEGED
01 L. G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 () OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	O POTENTIAL OF THE STATE OF
No potential exists		
05 Relationship to other SMU's:		· · · · · · · · · · · · · · · · · · ·
01 & H WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 D OBSERVED IDATE	S POTENTIAL 13 ALLEGED
Potential exists for worker expo		p Basin. nt A-25, H)
01I POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED	02 1 OBSERVED IDATE	C POTENTIAL C ALLEGED
There is no general public acces	s to this area of the Lenox (Attachme	
05 Relationhsip to other SMU's:		

SOLID WASTE Slip Basin MANAGEMENT UNIT B.2

LOCATION___I-7, J-7

PART 3- DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS HAZARDOUS CONDITIONS AND INCIDENTS OF MAIN DAMAGE TO FLORA WHATART PROSESSATION Leaks or overflows of contaminated materials occurring in a northwesterly direct COST CARSULTINITY CONTAMINATION OF STATE (Attachments A-5, 26, 27, 28, H) OF X NO DAMAGE TO FAUND OF MAIN DAMAGE TO FORD CHAIN OF MAIN DAMAGE TO FORD CHAIN OF MAIN DAMAGE TO FORD CHAIN OF MAIN DAMAGE TO OFFSITE PROPERTY OF OR DAMAGE TO OFFSITE PROPERTY OF ORDER THAN DAMAGE TO OFFSITE PROPERTY OF ORDER T	POTENTIAL PRELIM	HAZARDOUS WASTE SITE INARY ASSESSMENT	L IDENTIFICATION
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Leaks or overflows of contaminated materials occurring in a northwesterly direct CBUIL CONTAMINATION CONTAMINATION OF CONTAMINATION OF SEMENS AND	DI DE J. DAMAGE TO FLORA	02 CI OBSETVED (DATE:) ()	S POTENTIAL D ALLEGED
GOUTE COMMENTS OF A DAMAGE TO FAMOUR CONTRACTOR AND CONTRACTOR CO	· ·		
OR DOSERVED IDATE MOTERTIAL CALLEGE NUMBER OF SCRAFTION	Leaks or overflows of contaminated	d materials occurring in a nor	rthwesterly directio
OR DOSERVED IDATE MOTERTIAL CALLEGE NUMBER OF SCRAFTION	œuldanesultain contanination of:	flora. (Attachments A-	5.26.27.28.H)
Unit is open to access by wildlife. Contact with lagoon liquids could potential result in contamination. (Attachments A-5, 26, 27, 28, H) Contamination of FOOD CHAM No potential exists. OS Relationship to other SMU's: OF M UNISTABLE CONTAMINATION OF WASTES OF NO DAMAGE TO OFFSITE PROPERTY ON DOTE THIS CONTAMINATION OF SEMBLE SMU's: ON POTENTIAL OF THE CONTAMINATION OF THE MADAMINATION OF	N K DAMAGE TO FAUNA	•	& POTENTIAL C ALEGED
Contamination	NARATIVE DESCRIPTION INCOME AMERICAN DISCOURSE		
The contamination (Attachments A - 5, 26, 27, 28, H) If I CONTAMINATION OF FOOD CHAIN No potential exists. No potential exists. If M UNISTABLE CONTAMINENT OF MASTES IN M UNISTABLE CONTAMINENT OF SMEARS. STORM DRAINS, WATTER IN M UNISTABLE CONTAMINENT OF SMEARS. STORM DRAINS, WATTER IN M UNISTABLE CONTAMINENT OF MASTES IN M UNI	Init is open to access by wildlife	e. Contact with lagoon liquid	ds could potentially
No potential exists. OF Relationship to other SMU's: OF CONTRAINATIVE DESCRIPTION POTENTIAL DALEGE OF RELATIONSHIP OF MASTES OF REPUBLION POTENTIALLY AFFECTED OF NAMADITY DESCRIPTION OF RELATIONSHIP OF THE PROPERTY OF DESCRIPTION OF RELATIONSHIP OF OTHER SMU'S: OF RELATIONSHIP TO OTHER SMU'S: OF THE LEGALUMANIHORIZED DUMPING OF RELATIONSHIP TO OTHER SMU'S: OF THE LEGALUMANIHORIZED DUMPING OF RELATIONSHIP TO OTHER SMU'S: OF THE LEGALUMANIHORIZED DUMPING OF RELATIONSHIP TO OTHER SMU'S: OF THE LEGALUMANIHORIZED DUMPING OF RELATIONSHIP TO OTHER SMU'S: OF THE LEGALUMANIHORIZED DUMPING OF THE LEGALUMANIHORIZED			
No potential exists. OS Relationship to other SMU's: OS M UNSTABLE CONTAINMENT OF WASTES O2 DOBSERVED DATE O4 NARRATIVE DESCRIPTION POtential unstable containment since the lagoon is not lined. (Attachments H.I.) OC NO DAMAGE TO OFFSITE PROPERTY O2 DOBSERVED (DATE O5 NO DOTENTIAL OALEGE NO DO DOTENTIAL OALEGE NO S Relationship to other SMU's: OS COLUMNATION OF SEWERS, STORM DRAMS, WATTER O2 DOBSERVED (DATE NO NARRATIVE DESCRIPTION N/A OS Relationship to other SMU's: OC DO RELEGALUMANIHORIZED DUMPING N/A OS DESCRIPTION OF ANY OTHER ANOWN, POTENTIAL OR ALLEGED HAZARDS AN UNderground pipe formerly carried waste liquid from the glaze basin to the slopes of the integrity of this pipe cannot be verified. (Attachment H) II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS			
OS Relationship to other SMU's: OF MY UNSTABLE CONTANNAENT OF WASTES OF MY UNSTABLE CONTANNAENT OF WASTES OF POPULATION POTENTIALLY AFFECTED. OF NAMAGE TO OFF SITE PROPERTY OF DOTENTIAL OF ALLEGO NAMAGE TO CONTANNATION OF SEWERS, STORM DRAWS, WATTH OF DOTENTIAL OF Relationship to other SMU's: OF OF LIEGALUMANIHORIZED DUMPING N/A OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS An underground pipe formerly carried waste liquid from the glaze basin to the slopes in. The integrity of this pipe cannot be verified. (Attachment H) II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS			
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Or M M UNSTABLE CONTAINMENT OF WASTES OF DOBLETY OF POTENTIAL OF POTENTIAL OF ALLEGE OF POPULATION POTENTIALLY AFFECTED. OF NAME TO OFF SITE PHOPERTY OF DAMAGE TO OFF SITE PHOPERTY OF D			
Octential unstable containment since the lagoon is not lined. (Attachments H.I.) Octential unstable containment since the lagoon is not lined. (Attachments H.I.) Octential unstable containment since the lagoon is not lined. (Attachments H.I.) Octential exists as a direct result of this basin. (Attachment H.) Octential exists as a direct result of this basin. (Attachment H.) Octential exists as a direct result of this basin. (Attachment H.) Octential exists as a direct result of this basin. (Attachment H.) Octential exists as a direct result of this basin. (Attachment H.) Octential exists as a direct result of this basin. (Attachment H.) Octential exists as a direct result of this basin. (Attachment H.) N/A Octential unstable containment since the lagoon is not lined. (Attachment H.) Octential unstable containment since the lagoon is not lined. (Attachment H.) Octential unstable containment since the lagoon is not lined. (Attachment H.) Octential unstable containment since the lagoon is not lined. (Attachment H.) Octential unstable containment since the lagoon is not lined. (Attachment H.) Octential unstable containment since the lagoon is not lined. (Attachment H.) Octential unstable containment since the lagoon is not lined. (Attachment H.)		02 C OBSERVED (DATE	S POTENTIAL D ALLEGED
Potential unstable containment since the lagoon is not lined.(Attachments H,I) OF CH DAMAGE TO OFFSITE PROPERTY OF CHANGE TO O	(Lotte remains the same state of the same		
OF CH DAMAGE TO OFFSITE PROPERTY ANARATIVE LESCRIPTION NO potential exists as a direct result of this basin. (Attachment H) OF Relationship to other SMU's: OF RESCRIPTION N/A N/A OF RESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS An underground pipe formerly carried waste liquid from the glaze basin to the slassin. The integrity of this pipe cannot be verified. (Attachment H) II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS	,		•
OF CH DAMAGE TO OFFSITE PROPERTY ANARATIVE LESCRIPTION NO potential exists as a direct result of this basin. (Attachment H) OF Relationship to other SMU's: OF RESCRIPTION N/A N/A OF RESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS An underground pipe formerly carried waste liquid from the glaze basin to the slassin. The integrity of this pipe cannot be verified. (Attachment H) II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS	Potential unstable containment sir	nce the lagoon is not lined.(Attachments H,I)
No potential exists as a direct result of this basin. (Attachment H) OS Relationship to other SMU's: OS COMMANATION OF SEWERS, STORM DRAINS, WWTP# 02 OBSERVED IDATE			
OS Relationship to other SMU's: N/A	A NARATIVE DESCRIPTION		
N/A O5 Relationship to other SMU's: O1 IP LLEGAL UNAUTHORIZED DUMPING N/A N/A O5 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS An underground pipe formerly carried waste liquid from the glaze basin to the sloasin. The integrity of this pipe cannot be verified. (Attachment H) II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS	·	ΙΔΤΤΑ	achment H)
OS Relationship to Other SMU's: OI TP LLEGAL UNAUTHORIZED DUMPING OZ DOBSERVED (DATE		TPs 02 OBSERVED IDATE:I	C POTENTIAL C ALLEGED
OS Relationship to Other SMU's: OI TP LLEGAL UNAUTHORIZED DUMPING N/A N/A OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZAROS An underground pipe formerly carried waste liquid from the glaze basin to the sloasin. The integrity of this pipe cannot be verified. (Attachment H) II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS V. SOURCES OF INFORMATION (Columns instances) and a series are any and a series.	N/Δ		
ON THE PULLEGAL UNAUTHORIZED DUMPING N/A OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZAROS An underground pipe formerly carried waste liquid from the glaze basin to the sloasin. The integrity of this pipe cannot be verified. (Attachment H) II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS V. SDURCES OF INFORMATION Consider records 1. 1 Law 10. 1 Page 1. 1 Pa	•		•
N/A OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZAROS An underground pipe formerly carried waste liquid from the glaze basin to the sloasin. The integrity of this pipe cannot be verified. (Attachment H) II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS V. SOURCES OF INFORMATION (Co. 1996) (1996) (1996)	DI C P ILLEGALIUNAUTHORIZED DUMPING		D POTENTIAL LI ALLEGED
OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS An underground pipe formerly carried waste liquid from the glaze basin to the sloasin. The integrity of this pipe cannot be verified. (Attachment H) II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS V. SOURCES OF INFORMATION ICOLOGIC PROPERTY OF THE PROPERTY COMMENTS	14 NAME TIVE DESCRIPTION		
An underground pipe formerly carried waste liquid from the glaze basin to the sloasin. The integrity of this pipe cannot be verified. (Attachment H) I TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS	N/A	·	
In underground pipe formerly carried waste liquid from the glaze basin to the sloasin. The integrity of this pipe cannot be verified. (Attachment H) I TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS SOURCES OF INFORMATION (Concess records of the same records)			
SOURCES OF INFORMATION ICO LOCAL PROPERTY S. S. LIND WAS ARRESTED SET OF THE STATE	DS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR A	LLEGED HAZAROS	
V. COMMENTS V. SOURCES OF INFORMATION IC10 LOGGE INTERIOR OF A LARGE WAY AS LOGGETLE			
V. SOURCES OF INFORMATION (Cro Lorenz respected to g. Same res. Server program (appertu)			
/ SOURCES OF INFORMATION (Con scores convented to a constant constant constant	I, TOTAL POPULATION POTENTIALLY AFFECTED:		
	/. COMMENTS		
		•	•
	SOURCES OF INFORMATION (Con special responses to a sum	p negs, sample analysis (admitted	

SQLID WASTE Polishing	Lagoon
ARREST COURT OF THE PROPERTY THE STATE OF TH	
MANAGEMENTICURIT R 3	••

LOCATION H-3

SEP			ENTIAL HAZAR PRELIMINARY PART 2 - WASTE	ASSESSMENT	SITE	I. IDENTIFICATIO	
I PHYSICAL ST	ATES, QUANTITIES, AN ATES (Cooper or not serve) LT E. SUMPRY LT F LOUID LT G GAS	OZ WASTE QUANT	I with Sales	DE WASTE CHARACTE	CTME LG FUUM	E UI HOMEY VO DUS LI EUPLOSN ABLE UK REACTIM	re I Limbut
I. WASTE TY	PE						
CATEGORY	SUBSTANCE N	AME	DI GROSS AMOUNT	GZ UNIT OF MEASURE	03 COMMENTS		
SLU	SLUCGE						
a.w	OILY WASTE		ļ				
SOL	SOLVENTS						
PSD	PESTICIDES.						
occ	OTHER ORGANIC C	HEMICALS					
юс	INORGANIC CHEMK	CALS	1		<u> </u>		···
AĆD	ACIDS				ļ		
BAS	BASES						
MES	HEAVY METALS		unknown		<u> </u>	<u> </u>	<u> </u>
V. HAZARDO	OUS SUBSTANCES	Appendix of Park Labor	MIN CAME CAS REPORTED				CO ME ASUFFE C
CATEGORY	02 SUBSTANCE	NAME	03 CAS NUMBER	04 STORAGE DIS	POSAL METHOD	05 CONCENTRATION	CONCENTRATE
MES	Lead Waste	· · · · · · · · · · · · · · · · · · ·	7439-92-1	This is a near the e	nd of the	<u> </u>	
			1		Waste Trea		
			_		<u>ss. Waste</u>	 	
i				entering t			
				contains 1	<u>ess than l.</u>	0 ppm	
				lead.		1	ļ
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			· ·				
		<u> </u>					
			- 				
						<u> </u>	
V. FEEDSTO	CKS (see Asserts to CAS to	-c-()		CATEGORY	0155505	TOCK NAME	02 CAS NUMB
CATEGOAT	O1 FEEDS10	OCK HAME	02 CAS NUMBER		OTFEEDS	TOCK HAME	01 023 110 210
FDS				FDS	-		
FOS				FDS			ļ
FOS				FOS			ļ
FDS				FUS	<u></u>		<u></u>
VI. SOURCE	S OF INFURMATION	40 Local 10101014.04	ery , state level bandes drays	a resorts r			
Attac	hment E-3 Gera	aghty and	Miller Wast	e Facility	Report		···································

SOLID WASTE	Politisation	a Lagoon	LOCATION
MANAGEMENT	UNIT DA		TOCALTON

H-3

(の発生の)は、 (の)が大力では、(数)を (数)	THE WATER ONE WASTERITE	L IDENTIFICATION
A FIRA PR	TIAL HAZARDOUS WASTE SITE ELIMINARY ASSESSMENT OF HAZARDOUS CONDITIONS AND INCIDENTS	DI STATE DI BILE EL
HAZARDOUS CONDITIONS AND INCIDENTS		
01 & A. GROUNDWATER CONTAMENATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED IDATE.	A POTENTIAL C ALLEGED
Potential exists for lead wast groundwater. (Attachments A-2 O5 Relationship to other SMU'	te to leach through the bottom on 25, E) s: Receive wastewater from sl	ip basin.
01 E B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 U OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	A POTENTIAL E ALEGED
Waste water receives final cla	arification here and is discharged lead levels could potentially (Attachments A-25	be discharged to
01 17 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED.	02 C OBSERVED DATE	CI POTENTIAL C. ALLEGED
No potential exists.	····	
05 Relationship to other SMU		CI POTENTIAL L'ALLEGED
01 (10 FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 C: OBSERVED IDATE	
O) : D FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: No potential exists.		
No potential exists.		ALLEGES
No potential exists. C3 POPULATION POTENTIALLY AFFECTED This lagoon is located well w is available for direct conta 05 Relationship to other SML 01 % F CONTAMENATION OF SOL	o4 NARRATIVE DESCRIPTION o4 NARRATIVE DESCRIPTION ithin property boundaries. Theret. (Attachments A-25,H)	
No potential exists. C3 POPULATION POTENTIALLY AFFECTED This lagoon is located well w is available for direct conta 05 Relationship to other SML 03 AREA POTENTIALLY AFFECTED: Potential exists for lead was	of NARRATIVE DESCRIPTION ithin property boundaries. Thereto. (Attachments A-25,H) J's: O2 O OBSERVED (DATE) O4 NARRATIVE DESCRIPTION te to leach into the soil through	refore, limited acce
No potential exists. C3 POPULATION POTENTIALLY AFFECTED This lagoon is located well w is available for direct conta 05 Relationship to other SML 03 AREA POTENTIALLY AFFECTED: Potential exists for lead was	of NARRATIVE DESCRIPTION ithin property boundaries. Theret. (Attachments A-25,H) of Description of NARRATIVE DESCRIPTION	refore, limited acce
No potential exists. C3 POPULATION POTENTIALLY AFFECTED This lagoon is located well w is available for direct conta 05 Relationship to other SML 01 RF CONTAMENATION OF SOUL 03 AREA POTENTIALLY AFFECTED: Potential exists for lead was lagoon. (Attachments A-25 05 Relationship to other SML 01 LG DRINKING WATER CONTAMINATION	O4 NARRATIVE DESCRIPTION ithin property boundaries. Thereto. (Attachments A-25,H) O2 O OBSERVED (DATE) O4 NARRATIVE DESCRIPTION te to leach into the soil through,H,I) J'S: Receives waste water from soil (JOBSERVED (DATE) O4 NARRATIVE DESCRIPTION	refore, limited acce

01 ... I POPULATION EXPOSURE/INJURY 02 (! OBSERVED | DATE _______) C POTENTIAL L ALLEGE 03 POPULATION POTENTIALLY AFFECTED ______ 04 MARRATIVE DESCRIPTION

This lagoon is located well within property boundaries. Therefore, limited access is available for population exposure. (Attachments A-25,H)

05 Relationhsip to other SMU's:

SOLID WASTE Polishing tagether MANAGEMENT UNIT 8.3. ATTION H-3

POTENTIAL HE ROOUS WASTE SITE	L IDENTIFIC	ATION
POTENSATE OF A RUDUS WASTE SITE.	OF STATE OZ S	REMAN ST
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	[
IL HAZARDOUS CONDITIONS AND INCIDENTS RECEIVED		
01 EL J DAMAGE TO FLORA 04 MARRATIVE DESCRIPTION	S POTENTIAL	CI ALLEGED
Leaks or overflows of contaminated liquids could result in co	ntaminati	on of flora
05 Relationship to other SMU's: (Attachment H)	<u> </u>	
01 & K DAMAGE TO FAUNA 92 C OBSERVED IDATE.	S POTENTIAL	C ALEGED
Unit is open to access by wildlife. Contact with lagoon liquoresultain contamination; (Attachment H)	ids could	potentially
	2 POTENTIAL	D ALLEGED
No potential exists O5 Relationship to other SMU's:		
	& POTENTIAL	D ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION	•	
,		
Potential unstable containment since the lagoon is not lined.		ment H)
01 R N DAMAGE TO OFFSITE PROPERTY 02 D OBSERVED (DATE] 04 NARRATIVE CESCRIPTION	R POLENLIAT	□ WIEGED
There is potential for higher than indicated (1 ppm) amounts from this lagoon to pond and drainage ditch. (Attachments A=01 0 CONTAMUNATION OF SEWERS, STORM DRAINS, WWTPs 02 0 OBSERVED (DATE.		D be release
04 NARRATIVE DESCRIPTION		
N/A		
05 Relationship to other SMU's:		·
01 C P LLEGAL-UNAUTHORIZED DUMPING 02 D OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL	CI ALLEGED
N/A		
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS	· · · · · · · · · · · · · · · · · · ·	
There is potential for higher than indicated (1ppm) amounts o the Polishing Lagoon. (Attachments A-23,25,H)	f lead to	enter
III. TOTAL POPULATION POTENTIALLY AFFECTED:		
IV. COMMENTS		
Due to a series of checks and control mechanisms, it is highly would be a discharge from this unit that would contain elevations.	y unlikely ed lead le	that there
V. SOURCES OF INFORMATION (Co. social reserves a g. sine mes sample recents		
Attachment A - Geraghty and Miller - Lenox Site Engineering Re Attachment E - G and M Waste Facility Report Attachment H - Lenox On Site Inspection (OSI) - N. Jiorle	eport	 .

PA FORM 2070-12 (7-81)

SOLID WASTE DRUM STORAGE AREA
MANAGEMENT UNIT H.1 LOCATION I-9

EPA FORM 2070-12 (7-01)

POTENTIAL H	AZARDOUS WASTE SITE	L. IDENTIFIC	ATION
	ARY ASSESSMENT	01 STATE 02 M	RESMAN ST
PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENTS	i L	
HAZARDOUS CONDITIONS AND INCIDENTS AND			
DI D J. DAMAGE TO FLORA	02 OBSERVED IDATE:) U	POTENTIAL	D ALLEGED
NA NATIFICATIVE DESCRIPTION	····.		
No potential exists.	-		
05 Relationship to other SMU's:	-		
T C K DAMAGE TO FAUNA	02 G OBSERVED (DATE)	C POTENTIAL	C WTECED
A NARRATIVE DESCRIPTION INCLUS AMERICA DE SOCIAL			
No motordiol cuicto			
No potential exists. No Relationship to other SMU's:			
1 I L CONTAMINATION OF FOOD CHAIN	02 CBSERVED (DATE)	C POTENTIAL	O ALLEGED
M NARRATIVE DESCRIPTION			
No potential exists.			
05 Relationship to other SMU's:			
OL C M UNSTABLE CONTAINMENT OF WASTES	02 D CBSERVED (DATE)	C POTENTIAL	O ALLEGED
2 POPULATION POTENTIALLY AFFECTED.	04 NARRATIVE DESCRIPTION	• •	•
No evidence of unstable conta	inment. Area is well design	ned for cor	ntainment
purposes.		nent H-1)	·
DI C N DAMAGE TO OFFSITE PROPERTY	02 D OBSERVED (DATE)	O POTENTIAL	C ALLEGED
de narrative description			•
No potential exists.			
05 Relationship to other SMU's:			
11 D O CONTAMINATION OF SEWERS, STORM DRAINS, WATER	02 OBSERVED (DATE)	C POTENTIAL	C ALLEGED
NA NARRATIVE DESCRIPTION			
N/A	·		
05 Relationship to other SMU's:			
DI C P ILLEGAL UNAUTHORIZED DUMPING	02 D OBSERVED (DATE)	D POTENTIAL	CI ALLEGED
NARRATIVE DESCRIPTION			
N/A			
		•	
DS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLE	GED HAZAROS		
•			
I. TOTAL POPULATION POTENTIALLY AFFECTED:			
/. COMMENTS			
•		-	
See attached page.	•		
,			
SOURCES OF INFORMATION (Con species returned to g . same me.	a compa mayad 100m/si		
		• • • • • • • • • • • • • • • • • • • •	
ttachment A - Geraghty and Miller		port	
ttachment G - Sax Manual - Trichlo	roethyrene		

COMMENTS

This area was well designed for the purpose of drum storage. It is paved with an impermeable material that drains to a small pit with a sump. The area appears clean and free of stains that would indicate any spills.

SQLID WASTE Parking Lot Northeast of Slip Basin MANAGEMENT UNIT D.1 LOCATION K-7

\$EF	A	РОТ	ENTIAL HAZAR PRELIMINARY PART 2 - WASTE	ASSESSMENT	MTE	I. IDENTIFICATIO	
WASTE ST	ATES. QUANTITIES, AN	D CHARACTER	STICS				
PHYSICAL ST	ATES (Coops of the extent) LT E. SLUARY Food S. LI F LIQUEG	OZ WASTE CUANT	F STATE OF S	MASTE CHARACTES MA TOJIC 118 CORROS U.C. RADIOAC M.D. PERSISS	TML LG FULL	E UI HOHLY VO OUS LU ENPLOSIV MALE UK REACTIM	TELE
iù D. OTHER		CUBIC YARDS .	•				
I. WASTE TY	PE					<u> </u>	
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
Suu	SLUCIGE				Waste slude	e containe	eau was
a.w	OILY WASTE					om slip basir	
SO.	SOLVÊNTS				spread on	soil adjacent	to slip
PSO	PESTICIDES			·	basin to t	ne northeast	<u>This</u>
occ	OTHER ORGANIC CI	HEMICALS			area was e	<u>ventually pay</u>	ved over a
iOC	INORGANIC CHEMIC				used as a	parking lot.	
AC0	ACIOS		 				·
BAS	BASES						
MES	HEAVY METALS		unknown			·	
1	OUS SUBSTANCES						
I CATEGORY	07 SUBSTANCE		03 CAS NUMBER	04 STORAGE DIS	POSAL METHOD	05 CONCENTRATION	CONCENTRATION
MES	Lead Sludge		7439-92-1	Land-Farm		60	ppm
V. FEEDSTO	OCKS (See Asserting for CAS form) O OFFICEDSTO		02 CAS NUMBER	CATEGORY FOS	OIFEEDS	OCK NAME	02 CAS NUMBER
FDS				FDS .			
FOS			- 	FOS			
				FUS			
Fn:	ī		_I				
FOS VI. SOURCE	S OF INFORMATION			4 /90/71 i			

SOLID WASTE Parking Lot Northeast of Slip Basin MANAGEMENT UNIT D.1 LOCATION K-7

	TARROUG WASTE SITE	L IDENTIFICATION
PRELIMIN	AZARDOUS WASTE SITE IARY ASSESSMENT ZARDOUS CONDITIONS AND INCIDENTS	OT STATE 02 SITE MANUEA
L HAZARDOUS CONDITIONS AND INCIDENTS		
01 K A GROUNDWATER CONTAMINATION	02 DOBSERVED IDATE 11/82	O POTENTIAL C ALEGED
OJ POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
Analysis of groundwater sample take lead contamination. (Attachments A 05 Relationship to other SMU's: p	15,33,34,45,47,50) Predge wastes from Slip Basi	n were placed here.
01 (. B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 U OBSERVED IDATE	C ALLEGED
No potential exists.		
05 Relationship to other SMU's:	·	
01 1. C CONTAMINATION OF AIR. 03 POPULATION POTENTIALLY AFFECTED.	02 C OBSERVED IDATE 1	C) POTENTIAL C. ALLEGED
	•	
No potential exists 05 Relationship to other SMU's:		
01 : D FIRE-EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 C: OBSERVED (DATE	L' POTENTAL L'ALEGED
U3 POPOLATION POTENTIALET ATT COTES.	•	•
No potential exists	·	
03 POPULATION POTENTIALLY AFFECTED	04 NAHHATIVE DESCRIPTION	Audust
This area is completely paved over	, eliminating the potential (Attachments A-3	for direct contact. 3,35,H)
05 Relationship to other SMU's:		
01 K F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED.	02 % OBSERVED IDATE:	D POTENTIAL D ALLEGED
Contaminated dredge wastes from the area. (Attachments A-33,38,39,40,4	e slip basin were spread ont 41)	o the soil in this
05 Relationship to other SMU's:	02 () OBSERVED IDATE	SPOTENTIAL L'ALLEGED
D3 POPULATION POTENTIALLY AFFECTED.	04 NARRATIVE DESCRIPTION	in one square mile) to
Potential exists for private wells become contaminated. (Attachments	A-15,47, J)	in one square intre/ co
05 Relationship to other SMU's:		
01 C H WORKER EXPOSURE/MURY 03 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED IDATE	C POTENTIAL (3 ALLEGED
No potential exists		
01 XI POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 LEOBSERVEDIDATE	SPOTENTIAL JALLEGED
Potential exposure via contact wit	h contaminated groundwater ((Attachments A-15,47,J)
05 Relationhsip to other SMU's:		

SOLID WASTE Parking Lot Northeast of Slip Basin MANAGEMENT UNIT D.1 LOCATION K-7

POTENTIAL HA	AZARDOUS WASTE SITE	OI STATE OF MARSA
PART 3 - DESCRIPTION OF HA	IARY ASSESSMENT ZARDOUS CONDITIONS AND INCIDENTS	
IL HAZARDOUS CONDITIONS AND INCIDENTS COM		· · · · · · · · · · · · · · · · · · ·
01 D J. DAMAGE TO FLORA 04 NAPRATIVE DESCRIPTION	02 O OBSERVED IDATE:) 33 O	POTENTIAL DALFGED
No potential exists.		
05 Relationship to other SMU's:		
01 T K DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION INCAMP ANNIHAM SPECIAL	02 S OBSERVED (DATE) C	POTENTIAL G ALLEGED
No potential exists. 05 Relationship to other SMU's:		
01 T. L. CONTAMBATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 CBSERVED (DATE)	POTENTIAL DALLEGED
No potential exists. 05 Relationship to other SMU's:		
01 & M UNSTABLE CONTAINMENT OF WASTES	02 X) CBSERVED (DATE	POTENTIAL C ALLEGED
03 POPULATION POTENTIALLY AFFECTED.	04 NARRATIVE DESCRIPTION	•
Contaminated dredge waters from this area. (Attachments A33.34		onto the soil in
01 & N DAMAGE TO OFFSITE PHOPERTY C4 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE)	POTENTIAL CI ALLEGED
Potential exists for contaminat (Attachment A-47) Relationship to other SMU's:	ion to migrate offsite via gr	roundwater
01 D O CONTAMINATION OF SEWERS, STORM DRAINS, WATER 04 NARRATIVE DESCRIPTION	1 02 O OBSERVED (DATE)	C POTENTIAL C ALLEGED
N/A		÷
05 Relationship to other SMU's:		
01 XP ILLEGALIUNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 O OBSERVED (DATE)	& POTENTIAL CI ALLEGED
Spreading contaminated dredge willegal/unauthorized action. (re constituted an
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLE	EGED HAZAROS	•
		•
III. TOTAL POPULATION POTENTIALLY AFFECTED:		
IV. COMMENTS		
Since this area is covered by a intrusion is reduced, which in the contamination, minimizing w	turn reduces the amount of wa aste migration in the groundw	ter flowing through
V. SOURCES OF INFORMATION ICEO ADDICATE PROPERTY OF J. SAME PORT	s sample analysis reported	
Attachment A - Geraghty and Mil Attachment H - Lenox On Site In Attachment J - Memo to Lenox Fi	spection (OSI) - N. Jiorle	·

SQLID WASTE Underground Effluent Transport Pipe MANAGEMENT UNLT I LOCATION I-8,9

,	٦.	POT	ENTIAL HAZAF	DOUS WASTE	SITE	I. IDENTIFICATI	
SE	PA		PRELIMINARY PART 2 - WASTI	ASSESSMENT		O1 STATE 02 BITE	imela
L WASTES	TATES, QUANTITIES, AN	O CHARACTER	ISTICS				
	TATES ACHICLE DIS COMMITTED IN THE SECOND IN	02 WASTE OLIANT	TY AT SITE	D3 WASTE CHANCT II A TOXIC III B. CORRIC III C RADIO II D PERSS	ICTME L'G PULLE	E UI I MOMENT OUS UI EXPLOS ABLE UI K REACTI LE UI LI MCOM	ME PATIBLE
iù D. OTHER		i			•	U M FOT M	+-creft
	(Sparry)	NO. OF DRUMS		<u></u>			
III. WASTE T			,				
CATEGORY	SUBSTANCE	·AME	DI GAOSS AMOUNT	GZ UNIT OF MEASURE	03 CO-CHENTS		
Sui	SLUDGE						
OLW	ORY WASTE				 	 	
so.	SOLVENTS			 			
PSO	PESTICIDES						
occ	OTHER ORGANIC CI		-				
<u> </u>	INORGANIC CHEMIC	ALS	 				· <u>-</u>
ACD	ACIOS		ļ		 		
BAS	BASES	· · · · · · · · · · · · · · · · · ·	<u> </u>	ļ	ļ		
MES	HEAVY METALS			<u> </u>	1	· <u>·</u>	
	OUS SUBSTANCES		· · · · · · · · · · · · · · · · · · ·	·			DO ME ASUME OF
I CATEGORY	02 SUBSTANCE N	·***E	03 CAS NUMBER	04 STORAGE DE	SPOSAL METHOD	05 CONCENTRATION	CONCENTRATO
MES	MES lead Waste		7439-92-1	Liquids_i	n glaze bas	n	·
					sferred to	he	<u> </u>
	· 		 	slip basi	n via this '		
· . !			<u> </u>	pipe.			<u>.</u>
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	CKS 1344 AMARIAN RE CAS AMARI	~~~~					
CATEGORY	O1 FEEDS100	A RAME	02 CAS NUMBER	CATEGORY	O1 FEEDSTO	CK NAMÉ	02 CAS NUMBER
FOS			 	FDS		· · · · · · · · · · · · · · · · · · ·	· .
FDS				FDS			
FDS			<u> </u>	FOS			
FDS			<u> </u>	FUS			
VI. SOURCE!	OF INFORMATION ICA			reports ;			
Atta	chment H - Len	ox On Sit	e Inspectio	n (OSI) - N	. Jiorle		

SOLIT WASTE Underground Effluent Transfer Pipe
MANAGEMENT UNIT I LOCATION I-8,9

DOTENTIAL S	HAZARDOUS WASTE SITE	L IDENTIFICATI	
PRELIM	INARY ASSESSMENT AZARDOUS CONDITIONS AND INCIDER	ON STATE OF SHE	- Common
		 	
HAZARDOUS CONDITIONS AND INCIDENTS	02 DOBSERVED (DATE)	EXPOTENTIAL C	ALEGEO
OI K A GROUNDWATER CONTAMBATION OJ POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
Potential exists for contaminated	liquids to leak from pipe	into groundwate	er
05 Relationship to other SMU's:	carried waste water between	i glaze and slip	basin.
THE THE PROPERTY OF THE PROPER	02 U OBSERVED (DATE	C POTENTIAL	_ NLEGED
03 POPULATION POTENTIALLY AFFECTED:			
No potential exists			1
05 Relationship to other SMU's:		C. POTENTIAL	C ALEGED.
01 L. C. CONTAMINAT: IN OF AIR 03 POPULATION POTENTIALLY AFFECTED.	02. C OBSERVED IDATE	C. PUICHING	
and the second of the second o	·		
No potential exists			•
05 Relationship to other SMU's:		1 CI POTENTIAL	C. ALLEGED
01 D FIRE/EXPLOSIVE CONDITIONS	D2 C: OBSERVED IDATE	, 8,0,0,0	
No potential exists			•
		•	\.
C3 POPULATION POTENTIALLY AFFECTED	04 NARHATIVE DESCRIPTION	# 211 v1 # v	
No potential exists No Relationship to other SMU's:	•		
OI K F CONTAMENATION OF SOIL	02 D OBSERVED (DATE.	-I DEPOTENTIAL	T ALLEGED
03 AVEA POTENTIALLY AFFECTED.		•	
Potential exists for contaminated (Attachment H)			
05 Relationship to other SMU's:		en glaze and s	lip basins
01% G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED.	02 (1 08SERVED IGATE	-1 M POLEVINT	C ALEGED
Potential exists for contaminated	d liquids to leak from pip	e, enter ground	water and to
be transported to nearby private	[ATTACHMENTS]	H,I)	
05 Relationship to other SMU's	02 OBSERVED IDATE	_ C POTENTIAL	O ALLEGED
03 WORKERS POTENTIALLY AFFECTED:	DI NARRATIVE DESCRIPTION		
No potential exists			
01 %1 POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED	02 LEOBSERVED IDATE 04 NARRATIVE DESCRIPTION	_1 & POTENTIAL	
Potential exists via contact	t with contaminated ground	water	
, i		ttachments H,I)	
05 Relationhsip to other SMU's	<u> </u>		

SOLID WASTE Underground Effluent Transfer Pipe MANAGEMENT UNDER LOCATION I-8,9

	POTENTIAL HAZARDOUS WASTE SITE IL IDENTIFICATION		
SEPA PART 3 - DEI	PRELIMINARY ASSESSMENT BCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	OI STATE UZ S	TE RUESBAN
IL HAZARDOUS CONDITIONS AND INCE	DENTS (Certains)		
01 D J. DAMAGE TO PLORA 04 NARRATIVE DESCRIPTION		D POTENTIAL .	□ ALLEGED
No potential exists		•	
01 C K DAMAGE TO FALMA OI NARRATIVE DESCRIPTION (COLUMN COLUMN)		C POTENTIAL	C ALEGED
No potential exists			
01 T. L. CONTAMBIATION OF FOOD CHAIN DA NARRATIVE DESCRIPTION	02 CASERVED (DATE)	2 POTENTIAL	□ ALLEGED
No potential exists	-		
01 I M UNSTABLE CONTAINMENT OF WA	ASTES 02 DESERVED (DATE:)	A POTENTIAL	- ALLEGED
03 POPULATION POTENTIALLY AFFECTED:		•	
Potential exists sinc	ce integrity of pipe cannot be verified.		
11 & N. DAMAGE TO OFFSITE PROPERTY NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	D POTENTIAL	- ALLEGED
No potential exists a	as a direct result of this pipe. (Attach	ment H)	Ì
01 0 CONTAMINATION OF SEWERS, ST 04 NARRATIVE DESCRIPTION	TORM DRAINS, WWTPs 02 () OBSERVED (DATE:)	C POTENTIAL	□ ALLEGED
N/A			·
01 C P ILLEGAL/UNAUTHORIZED DUMPIN 04 NARRATIVE DESCRIPTION	NG 02 0 OBSERVED (DATE:)	D POTENTIAL	[] ALLEGED
N/A			
05 DESCRIPTION OF ANY OTHER KNOWN	, POTENTIAL, OR ALLEGED HAZAROS		
	. •		
·			
III. TOTAL POPULATION POTENTIALLY	/ AFFECTED:		
IV. COMMENTS			{
Upon direct questioni integrity of this pip	ing, the plant manager was unable to pro be.	vide infor	mation on the
V. SOURCES OF INFORMATION (Con Local	ges (province), 8 g., supp. 1004, supplyin province, 18000/64)		
	On Site Inspection (OSI) - N. Jiorle. to Lenox File regarding permeability tes	ts - N. Ji	orle.

SQLID WASTE	E Drum	Sto	rage	Area	
MANAGEMENT	UNIT_	H.1		_	LO

			CUTIAL MATA	TF!	SITE	I. IDENTIFICATIO	
SEPA		POT	POTENTIAL HAZA: TE SITE PRELIMINARY A TE SITE PART 2 - WASTE INFORMATION		CI STATE 02 BITE MANGER		
	_	D CHARACTER					
	ATES, QUANTITIES, AN	OZ WASTE OUNT	TY AT SITE	OJ WASTE CHURACTE	INSTICE (Company)	,, ·	
DI PHYSICAL SI	ATES (Charles of that easter)		of woman description (DA TOZZ	ن و∞دناهیا	E. AL HIGHEA M	outul -
LIA SOLO	E E SLURRY R Fried B I LOUD	1 .'		I J B CORACI			/t . 1
Li C. SLUGGE		1		L. D PERSIST			TOLE
12 0.01 mLA				}			
ig g. ginen	(Seecre)	NO OF DRUMS	<u></u>	<u> </u>		 	
III. WASTE T	YPE						····
CATECORY	SUBSTANCE M	we	DI GROSS AMOUNT	CZ UNIT OF WEASURE	03 COLUMENTS		
SUU	SLUDGE		<u> </u>	·			
OLW	OILY WASTE					<u> </u>	
SOL	SOLVENTS		180	qallons	waste TCE s	<u>torage</u>	
PSO	PESTICIDES						
	OTHER ORGANIC C	HEMICALS					
occ	INORGANIC CHEMIC						
·oc				 		<u>, i</u>	
ACD	ACID\$		 		 		
BAS	BASES		ļ	 			
MES	HEAVY METALS				1		
IV. HAZARD	OUS SUBSTANCES	ميهدة ناوت جد محمدها					DO ME ASSIFTE OF
U1 CATE GOAY	02 SUBSTANCE	E	03 CAS NUMBER	04 STORAGE DE	SPOSAL METHOD	05 CONCENTRATION	
SOL	Trichloroethy	lene	79-01-6	Drum Store	age	19,000	ppm
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V. FEEDST	OCKS is a server or CAS me						
CATEGOR		CA NAME	OZ CAS NUMBER	CATEGORY	O1 FEEDST	DCX NAME	02 CAS NUMBE
				FDS	1	 	
FDS					 		
FD\$				FDS			
FDS				FOS	 		
FDS		·		FUS			<u> </u>
VI. SOURCE	ES OF INFORMATION (40 Local (0100-144)	y , state less . Landre eners	- 100071.1			
Attachr Attachr	ments A-6, A-1 ment C-5 - DEP	O - Geragh -DWM-RCRA	nty and Mill Inspection	er - Lenox Form - M.	Site enginee Jernigan	ering report	

(Attachments A-12, H-1)

LOCATION 1 1 1

L IDENTIFICATION POTENTIAL HAZARDOUS W. 1 O1 STATE OF SITE MAN PRELIMINARY ASSESSML PART 3 - DESCRIPTION OF HAZARDOUS CONDITION SAME INCIDENTS IL HAZARDOUS CONDITIONS AND INCIDENTS C. ALLEGED O POTENTIAL 02 OBSERVED (DATE. 01 L. A. GROUNDWATER CONTAMNATION OA NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: No potential exists 05 Relationship to other SMU's: 02 LOBSERVED (DATE. 01 (. B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: DA NARRATIVE DESCRIPTION No potential exists 05 Relationship to other SMU's: 2 POTENTIAL C. ALLEGED 01 % C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED 02 C OBSERVEDIDATE O4 NARRATIVE DESCRIPTION Minimal potential exists during drum filling operations. Drums are tightly sealed at all other times : (Attachment A-19) 05 Relationship to other SMU's 02 C. OBSERVED IDATE 01 X D FIRE/EXPLOSIVE CONDITIONS 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: Potential for fire exists since trichloroethylene is a flammable substance. (Attachment G-1) ALLEGED 2-12:57 04 NARRATIVE DESCRIPTION C3 POPULATION POTENTIALLY AFFECTED Potential exists for employee contact during transfer operations. 05 Relationship to other SMU's: (Attachments A-19, 20, H-1<u>)</u> C ALLEGED () POTENTIAL 02 OBSERVED (DATE: O1 LF CONTAMINATION OF SOIL 04 NARRATIVE DESCRIPTION 03 AREA POTENTIALLY AFFECTED: No potential exists 05 Relationship to other SMU's: 01 L. G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. O POTENTIAL L' ALLEGED 02 EJ OBSERVED (DATE 04 NARRATIVE DESCRIPTION No potential exists 05 Relationship to other SMU's: ☐ ALLEGED R POTENTIAL 01 25 H WORKER EXPOSURE/INJURY 02 D OBSERVED IDATE 03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION Potential exists for worker exposure during transfer operations. (Attachments A-19,20,H-1) J ALLEGED - POTENTIAL 02 CLOBSERVEDIDATE 01 (3) POPULATION EXPOSURE/INJURY

04 NARRATIVE DESCRIPTION

This area is located well within property boundaries, therefore, limited access

03 POPULATION POTENTIALLY AFFECTED: .

is available for population exposure.

05 Relationship to other SMU's"

1.	DOCUMENTS REVIEWED				
	DOCUMENT NAME	DATE	AUTHOR	LOCATION	NO. PAGES
1.	RCRA Part B Permit Applicati	on 11/82	Geraghty & Miller Inc.	DEP-DWR Trenton	48
2.	RCRA Inspection Enforcement	Memo 1/11/85	James Hamilton	DEP-DWR-Trenton	5
3.	NJDEP Inspection-Lenox China	9/25/84	Mary Jernigan	DEP-DWM-Red Lion	6
4.	NJDEP Inspection-Lenox China	2/23/84	Bruce Venner	DEP-DWM-Red Lion	· 5
5.	Waste Facility Report	Unknown	Geraghty & Miller, Inc.	DEP-DWM-Red Lion	3 .
6.	NJDEP Inspection-Lenox China	2/2/83	William Lowry	DEP-DWM-Red Lion	4
7.	Sax Manual-6th Edition	1984	N. Irving Sax	DEP-DWM-HSMA-Trento	n 1
8.	On Site Inspection-Lenox	1/8/86	Neil Jiorle	DEP-DWM-HSMA-Trento	1 2
9.	Memo to File Permeability	12/85	Neil Jiorle	DEP-DWM-HSMA	
10.	Memo to File-Private Wells	12/85	Neil Jiorle	DEP-DWM-HSMA	
11.		•			
12.					
1.			, `		
14.					

II. OFFICES CONTACTED

	OFFICE	CONTACT NAME	CONTACT TELE. NO.	CONTACT DATE
1.	DEP-DWR	Ken Siet	609-292-0424	12/85
2.	DEP-DWM-Haz.Waste Engr.	Frank Coolick, Scott Bake	r 609-292-9880	12/85
3.	DEP-DWR	Kathy Locaine	609-633-6620	12/85
4.	DEP-DWM-Red Lion	Tom Downey	609-859-3373	12/85
5.	DEP-DWM-HSMA	Fred Schmitt	609-633-7282	12/85
6.	Atlantic County Health Dept.	Marilyn Gerhardt	609-645-7700	12/85
7.	DEP-DWR	Carol Lucy	609-984-6831	12/85
.8			•	

15.

10.

I.	Conc	lusio	ons and Recommendations
	A.	Conc	clusions - Please see attached recommendations
	٠	01:	Is there sufficient information to conclude that no releases have occurred?
		•	(yes/no)
		02	Comment
		· 03	Identify units which have not had releases.
		04	Is there sufficient evidence to conclude that release have potentially occurred?
			(yes/no)
		05	Comment
		06	Identify units which probably have had releases.
,			
		07	Is there sufficient evidence to conclude that releases have occurred and are well documented?
		e en en e	(yes/no)

09 Identify units which have had documented releases.

08

Comment

в.	Reco	ecommendations		
	01	The Facility has priority for site investigation		
		(yes/no)		
	02	Priority is:		
		high medium low		
	03	The facility should be required to perform an RI/FS prior to completion of the SI.		
		(yes/no)		
	04	Basis for the RI/FS is as follows:		
	05	The facility should be referred to enforcement for priority resolution of the following environmental/potential public health problem:		
	The a	above conclusions and recommendations are accepted for oses of the Completion of RCRA PA requirements.		
	Signe	ed:		
	HSMA	(preparer) (Date)		
	DWM-E	BHWE (Date)		
	٠	(bace)		
,	DWR	(Date)		
	DWM-B	HWP&C (Date)		
		1/		

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Conclusions and Recommendations

On Thursday, January 23, 1986 a meeting was held to discuss the findings of the Preliminary Assessment (PA) and Site Inspection (SI) performed at Lenox China relative to the RCRA Subtitle C Grant, and to make recommendations based on those findings. Attending the meeting were representatives from NJDEP Division of Water Resources, Division of Waste Management-Solid Waste Administration, Bureau of Hazardous Waste Planning and Classification, and Hazardous Site Mitigation Administration.

It was determined from the PA and SI that, overall, the site is well maintained. It was also determined that an area of lead contaminated sludge disposal may represent a problem. Waste sludge containing lead was dredged from the slip basin and placed in the soil immediately northeast of the slip basin. This area was subsequently paved over for use as a parking area.

Lenox uses several monitor wells presently on site to sample the groundwater and analyse for approximately 30 parameters including lead contamination. One well is located directly in the area where the lead contaminated sludge is buried and analysis of groundwater taken from this well indicates lead contamination.

It was determined by the NJDEP participants at the meeting that a Remedial Investigation/Feasibility Study is warranted to further assess the groundwater contamination (possibly involving the installation of one or more additional groundwater monitoring wells) and the ability of the present arrangement (ie. asphalt pavement placed over area of sludge deposition) to preclude further migration of lead into the groundwater.

Signed:

HSMA (preparer)

DWM-BHWE

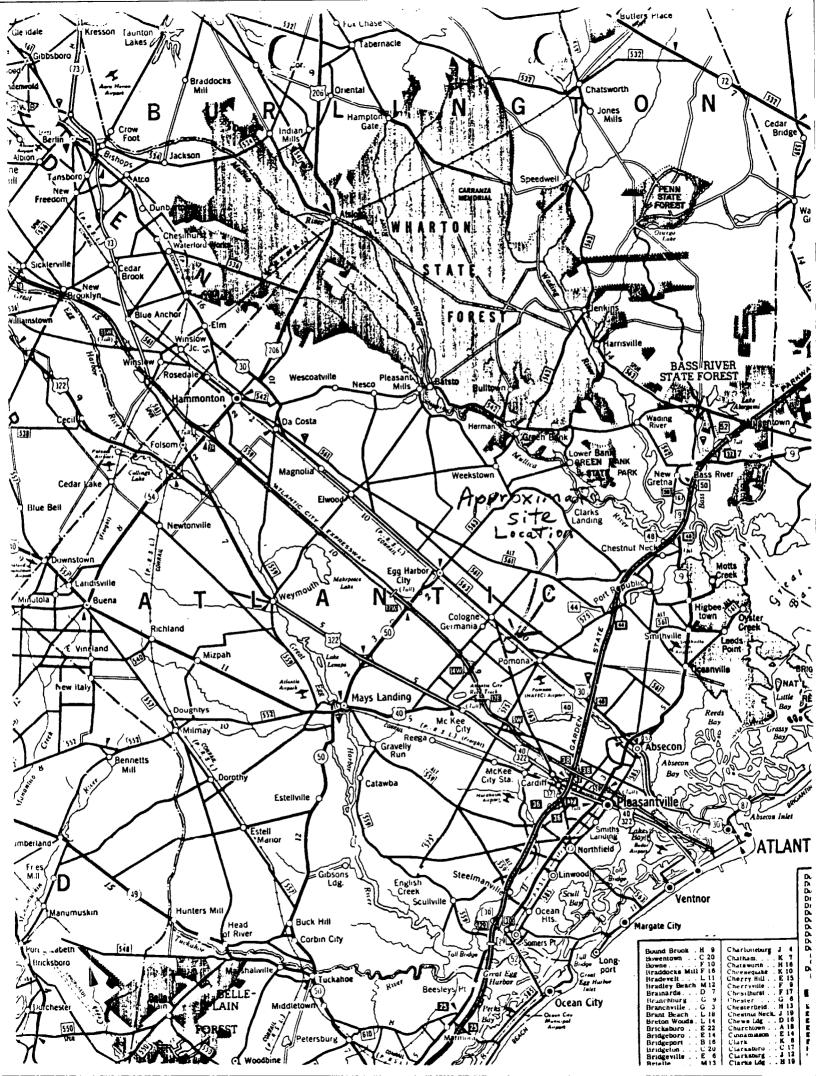
Thunk See

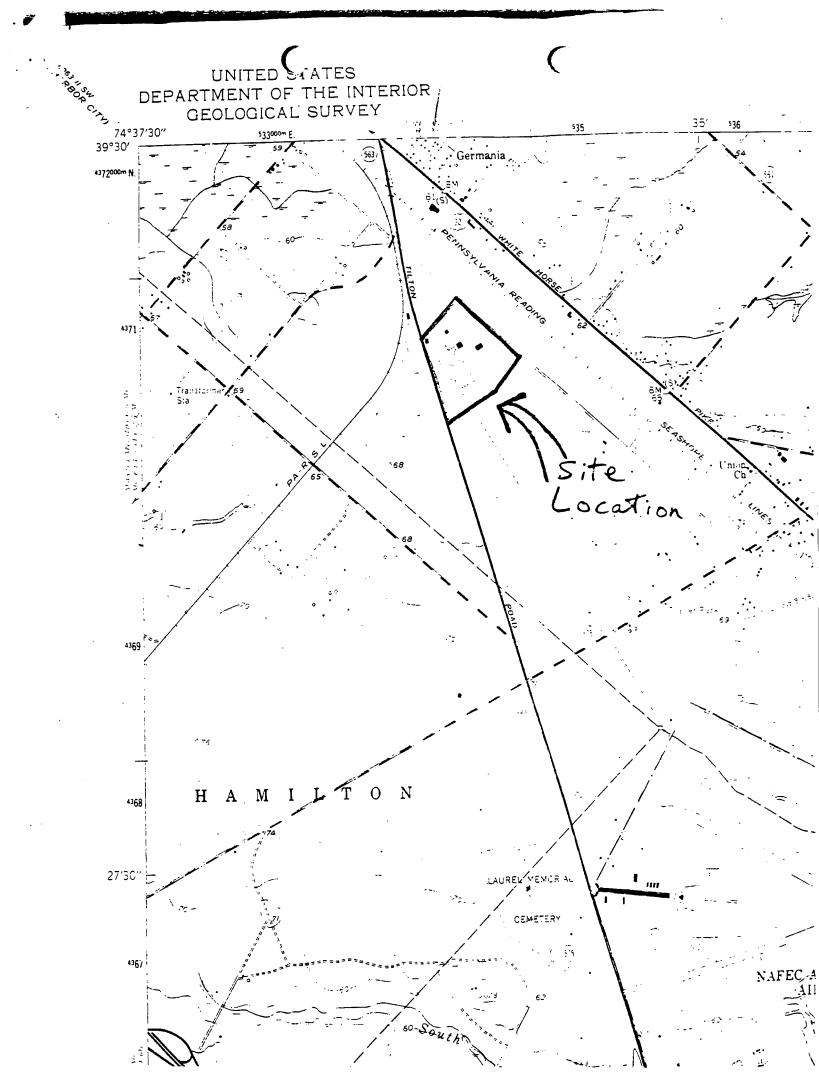
DWM BHWP and C

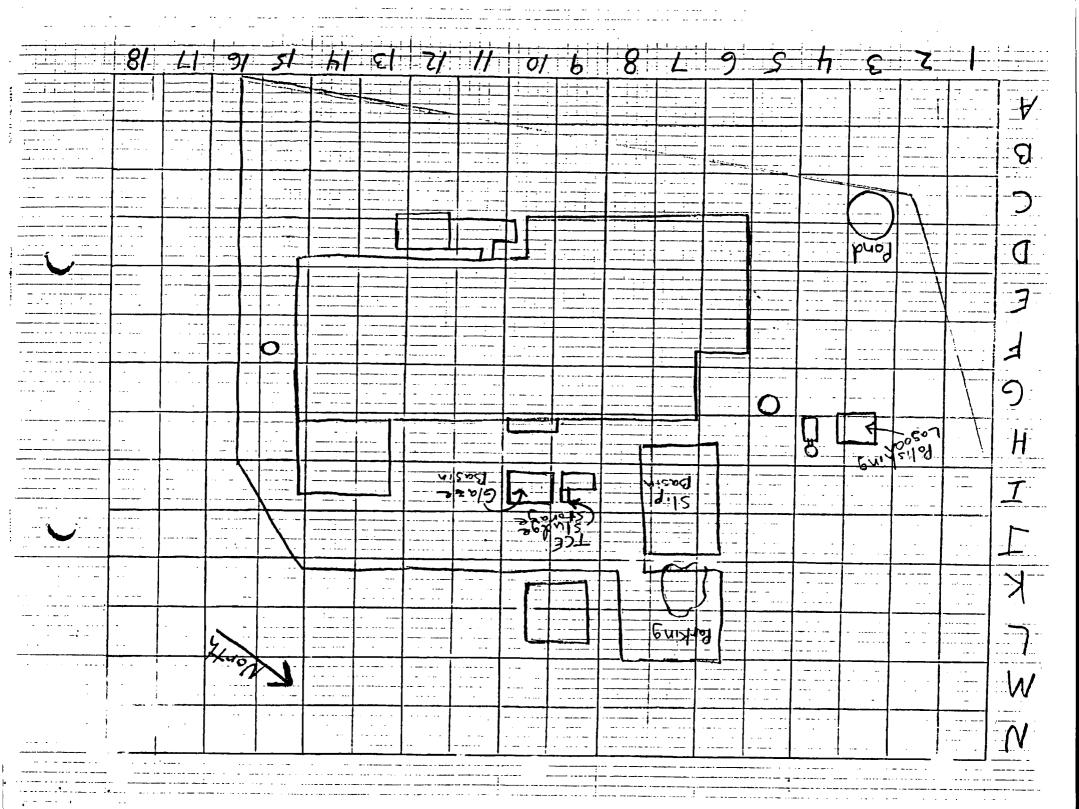
//2*7/8* (Date)

(Date)

/27/8% (Date)







SECTION 1

FACILITY DESCRIPTION

General Description of the Facility (40 CFR 122.25(a)(1))

Lenox China is a division of Lenox, Inc. Lenox China Inc. was merged into Lenox, Inc. effective December 31, 1983. Lenox, Inc. is an indirectly wholly-owned subsidiary of Brown-Foreman Distillers Corp. All references herein to Lenox China or Lenox shall mean the Lenox China Division, Lenox, Inc.

The Lenox China plant is located on Tilton Road, in Pomona, New Jersey (08240) on 56 acres of land, approximately 15 miles west of Atlantic City. The plant consists of nearly 410,000 square feet of manufacturing area, constituting the largest fine china manufacturing facility in the United States. Although primarily a manufacturing facility, an office force is also maintained to cover such areas as accounting, data processing, and customer service. In addition to the factory, a small retail outlet, open to the public, is operated on the premises.

The products manufactured at this facility are ceramic dinnerware and giftware of the highest quality. The dinnerware line includes fine china sold under the "Lenox" and "Oxford" brands, and quality casual dinnerware sold under the "Temperware by Lenox" brand. The giftware line includes functional and decorative china giftware such as vases, bowls, serving pieces, candy dishes, and special collections.

The factory is in operation 24 hours per day, seven days per week, on

Attachia.

a three shift basis. Of the three shifts, the day and evening shifts are involved in manufacturing five days per week. Functions on the midnight shift and weekends are reduced to kiln operations, light maintenance, clean-up operations, and security.

At present, Lenox China employs 1,400 men and women of whom 300 are salaried, or supervisory and support personnel. There are 1,100 production employees represented by the Glass. Pottery, Plastics, and Allied Workers International Union, Local 236-A.

Lenox China manufactures fine china by blending clay and other aluminio-silicates which are coated or glazed with lead glass after an initial firing. Process wastes containing leaded glaze have been stored on-site since the plant began operations in 1954. Results of tests on the waste materials indicate that they contain a hazardous waste (lead) as defined in the Resource Conservation and Recovery Act (RCRA) and NJPDES regulations.

The hazardous waste storage areas or facilities include a glaze basin and a slip basin, both of which are unlined and an area immediately adjoining the slip basin to the northeast where some waste dredged from the slip basin was spread and subsequently paved over.

These hazardous waste storage facilities are currently operated and maintained under USEPA Permit Number NJ0005177 and New Jersey DEP Permit Number NJD002325074.

Detailed Description of the facility (40 CFR 122.25(a)(19))

The locations and boundaries of the hazardous waste storage areas, along with the locations of all principle buildings and structures, the plant production wells and the plant property lines are shown in relation to the surrounding area in Figure 1A (located in pocket). Land-use patterns for the areas immediately surrounding the plant are shown in Figure 1B.

There are no significant surface-water bodies within 1,000 feet of Lenox China property lines nor are there any sewer installations in this area at this time.

The topography of the site (Figure 1C) indicates that surface runoff associated with episodes of heavy rainfall is directed toward the north-eastern end of the property where a retention berm has been placed to contain the runoff. The retention area, shown in Figure 1C, has a volume which is 20 times that required to contain runoff from the largest three-day rainfall occurring in the last 100 years (IMC Report, 10-9-79). Specific information for the retention area and a breakdown of paved/non-paved sections of plant site are appended.

The prevailing wind patterns for the area as recorded and compiled by the National Oceanic and Atmospeheric Administration (NOAA) at the agencies Atlantic City meteorological station are illustrated by the wind rose in Figure 1D. The application and interpretation of the wind rose is discussed in appended documents supplied by NOAA.

DESCRIPTION OF HAZARDOUS WASTES (40 CFR 122.25(a)(2))

Lenox China stores hazardous wastes in two unlined basins (glaze basin and slip basin) and in six 30-gallon drums which are kept in a diked and asphalted area behind the equipment shed at the rear of the main plant building. In addition, some sludge from the slip basin was spread over a limited area adjoining the basin and subsequently covered during an expansion of the asphalt parking lot.

A general description of the individual wastes in each storage area is provided below.

Glaze Basin (Lead Waste: Toxic EPA/Hazardous Waste No. D008)

The glaze basin has been used since 1954 to store process wastes consisting of clay, lead carbonate, frit (low solubility lead compounds in glass form) and silica. This material is not corrosive, ignitable or reactive.

Approximately 1,600 tons (1,200 cubic yards) of glaze having a high clay content and a total lead content of between 35 and 40 percent, as determined by Lenox China, was deposited in the basin prior to 1970. Permeability tests on the glaze waste indicated value of 2.69×10^{-6} cm/sec and 1.06×10^{-6} cm/sec in the vertical direction. Waste discharge to the basin was terminated in 1970 at which time Lenox China initiated action to recycle this material. To date, approximately 30 tons of waste glaze have been removed and recycled. Complete removal of all the residual glaze is the

ultimate objective. A further discussion of future waste management plans for the glaze and slip basins is provided in their respective closure plans (Section 12).

Slip Basin (Lead Waste: Toxic/EPA Hazardous Waste No. DOOS) -

Waste materials discharged to the slip basin betwen 1954 and 1970 were limited to clay, nepheline syenite (feldspar) and flint. Discharge of process washwater containing glaze, which is a combination of clay, lead, carbonate, frit (low solubility lead compounds in glass form), and silica began in 1970 and continued until 1981 when it was discontinued. Lenox China has determined that material currently in the slip basin is not reactive, corrosive or ignitable. Moreover, this material has a high clay content and a total lead content of less than 2 percent. Failing head and triaxial permeameter tests indicate that the vertical permeability of the sludge in the basin ranges between 7.06×10^{-6} cm/sec and 3.23×10^{-7} cm/sec.

In addition, some waste sludge dredged from the slip basin during the early 1970's was spread over a limited area immediately to the northeast of this basin. The lead content and leachability of this sludge was evaluated through a soil boring, sample collection and testing (EP toxicity) program. As a result of this work it was determined that a portion of the material placed in this area is of a hazardous nature. A more comprehensive discussion of this material is presented at the end of Section 12.

<u>Drummed Wastes</u> (Trichloroethylene Degreaser Sludge: <u>Toxio/SPA</u> Hazardous Waste No. F001)

Waste trichloroethylene (TCE) captured in degreaser traps after its use in selected stages of the process operation is stored in six 30-gallon drums at a secured onsite location behind the equipment storage shed in the parking lot at the rear of the main plant building. Each drum is clearly labeled to inform workers handling these wastes of the associated hazards. Under normal production conditions these drums are filled, sealed, and removed by a state approved hazardous waste hauler to an approved treatment facility (incineration) every three months. The sludge in these drums is not corrosive, reactive or ignitable.

Concentration information for the hazardous lead wastes handled/stored by Lenox in the slip basin is appended to the end of this section.

TOXICITY (EP) OF UNTREATED WASTE

FROM THE SLIP BASIN

Sample Date	Source	EPA Toxicity
10- 7-80	Treatment Plant	43 ppm leachable Pb before treatment
10- 8-80	do	40 ppm leachable Pb before treatment
11- 6-80	do	69 ppm leachable Pb before treatment
11-21-80	do	102 ppm leachable Pb before treatment
12- 3-80	do	27 ppm leachable Pb before treatment
12- 9-80	do	25 ppm leachable Pb before treatment
12-10-80	do	29 ppm leachable Pb before treatment
12-23-80	do .	25 ppm leachable Pb before treatment
1- 8-81	do	25 ppm leachable Pb before treatment
1-19-81	do	35 ppm leachable Pb before treatment
3-11-81	do	20 ppm leachable Pb before treatment
6- 5-82	do	14 ppm leachable Pb before treatment
4-23-82	do	36 ppm leachable Pb before treatment
8- 9-82	Equilization Sump	9 ppm leachable Pb before treatment Total lead was 0.53% Pb on this sample
3-11-83	Treatment Plant	8.9 ppm leachable Pb before treatment
2- 6-84	do	49.05 ppm leachable Pb before treatment

H 7

SECTION 3

WASTE ANALYSIS PLAN (40 CFR 122.25(a)(3))

Lenox China stores several Appendix VIII wastes at its Pomona, New Jersey, plant. Lenox has reviewed information characterizing its current and historical waste mix and has identified the following 40 CFR 264.93(a) hazardous constituents:

- Lead and compounds (hazardous waste components of process sludge)
- Trichloroethylene (hazardous waste component of degreaser sludge)

This list characterizes the entire waste stream including production and maintenance-related wastes, off-specification materials, intermediate products, and out of date materials that are handled as wastes.

All monitoring done as part of the Lenox RCRA compliance program includes test for the constituents identified above.

Scope of Plan

- Test categories
- Frequency of tests
- Test parameters
- Process changes
- Incidental process wastes
- Trichloroethylene (TCE) testing

Waste Analysis Procedure

- 1. The following categories are tested in accord with this plan:
- a) Alumino-silicate sludges containing lead. These are monitored by the Director of Ceramic Research and Development. Any process change in the production clays and glazes is initiated by the Director of Ceramic

Research and Development. He will then test waste sludges for any substance found in Table 1, $40\ \text{CFR}$ $261.24\ \text{consequential}$ to the process change.

- b) ICE sludge produced in process degreasing operations. These are monitored by the Facilities Project Engineer. This waste is a specific EPA waste and is periodically tested by Lenox to determine the percentage of ICE present in the sludge. A copy of a recent analysis on the ICE sludge is appended. Moreover additional analyses may also be performed at the facility receiving this drummed waste.
 - Note: Trichloroethylene is purchased in drums. It is collected from degreaser traps and stored onsite in sealed, marked drums. When quantities total 30 gallons the drum is sealed, and sent to Rollins Environmental Services, an approved treatment (incineration) facility. TCE does not appear in any other part of the waste or process stream.
- c) All substances entering the facility. A large variety of substances entering the facility are routinely reviewed by the Facilities Project Engineer in accordance with procedures established by Lenox and appended to the end of this section. The Facilities Project Engineer tests all resulting process waste to determine toxicity.
- 2. The Senior Engineering Technician provides the designated R&D Lab Technician with a sample of untreated waste obtained from the equilization sump at least once each quarter. Samples are collected in accordance with waste sampling and analysis procedures described in 40 CFR 261 Appendix 1, 2, and 3 which are incorporated in this plan by reference.
- 3. The R&D Lab Technician tests the sample for EPA toxicity following the procedures for the chemical analysis of water and wastes provided in EPA-600 4-79-020 which are incorporated in this plan by reference. This is done to ensure that proper treatment can be maintained and so that the effect of process changes, if any, can be noted.
- a) The R&D Lab Technician records all pertinent toxicity data in a log entitled "EP Toxicity of Untreated Waste" (a copy of which is appended to the preceeding section).



ANALYSIS REPORT FF4344 INV.#3615/mp

CERTIFICATE OF ANALYSIS

Lenox China Pomona, N.J E N T LOG NUMBER FF4344	. 08240 am Simmons	e Sampl	e	SAMPLE IDENTIFICAT	TION		
	•						·
SAMPLE RECEIVED	·	:		ANALYSIS COMPLETED _	1/10/84	4	
COLLECTED BY					· · ·		
	. •	RESUL	TS (mg/L	unless specified)	MG/KG		
TEST PARAMETER				TEST PARAMETER	FF4344	· -	
BOD5*				Chlorine Demand			
COD				Chlorine Residual			
TOC				Chloride (CL)			
ssolved Oxygen				Silica			
uspended Solids				Petroleum HYC.			
Total Solids				Hardness (as CaCO ₃).			
Dissolved Solids				TCE	19,000	(1.9%)	
Sett. Solids (ml/L)		_					
pH	- -						
Phenois			· · · · · · · · · · · · · · · · · · ·	Aluminum			
Cyanide (Total)				Antimony			
Fluoride				Arsenic			
Cyanide (Free)				Barium			
Surfactants (mg/L LAS)				Boron			
Oil & Grease (Freon)				Cadmium			
Nitrogen (KJD as N)				Calcium (Ca)			
Nitrogen (Ammonia as N)				Chromium (Total)			
Nitrogen (Organic as N)				Chromium (Hexa)			
Nitrite (N)	+			Copper			<u> </u>
Nitrate (N)				Iron			
Phosphate (P) Total		_		Lead Magnesium (Mg)	_		
Phosphate (P) - Ortho				Manganese			
Sulfate (SO ₄)				Mercury			<u> </u>
Sulfite (SO ₃)				Nickel			
Sulfide				Potassium			
Color				Selenium			
Turbidity (NTU)				Silver			
Conductivity (Micromoha)	 			Sodium			
Aik (Total) as CaCO3	` `			Tin	- 		
				Titanium			├──
Tecal Coliform				Zinc			
tal Coliform							

minimum of 5 sample dilutions were used for this determination. ■ Non-detectable, below the limit of detection.

LAB COMMENT:

SECTION 4

WASTE MANAGEMENT AREA (40 CFR 122.25(9)(19): 264.95 and 264.97)

Physical Layout

The property boundaries of the Lenox China, Pomona plant, along with the locations and boundaries of the waste management area (which includes a storage area for drummed trichloroethylene sludge, a glaze basin, slip basin and an adjoining area where some dredge wastes were spread), the configuration of the envelope immediately surrounding the combined storage facilities (i.e. the compliance point) and the locations of all RCRA monitoring wells on the plant site are provided in Figure 4A.

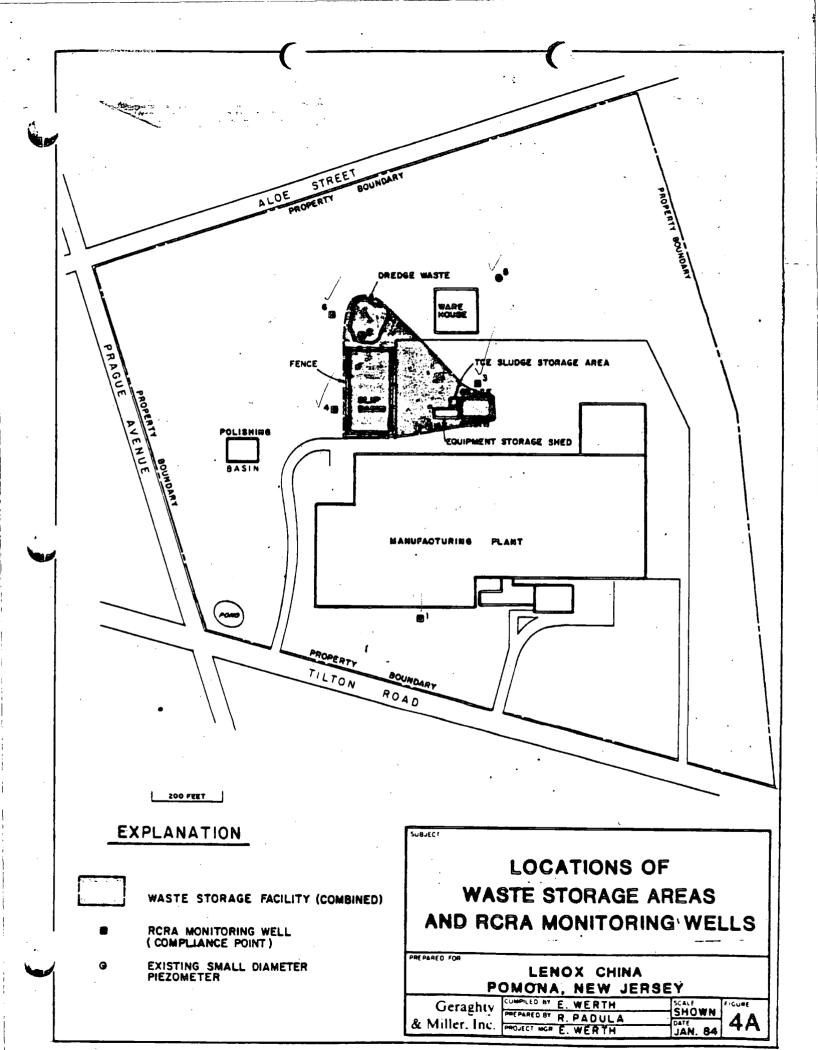
The extent of the hazardous waste material dredged from and placed adjacent to the slip basin during the early 1970's, and only detected after the initial set of four RCRA monitoring wells had already been installed, was determined from a subsequent soil boring investigation performed in February 1983. The investigation involved the collection of soil samples for EP toxicity testing. The distribution of the analytically determined leachable lead values provided in Figure 4B serves as the basis for defining the northeastern limit of the hazardous waste management area.

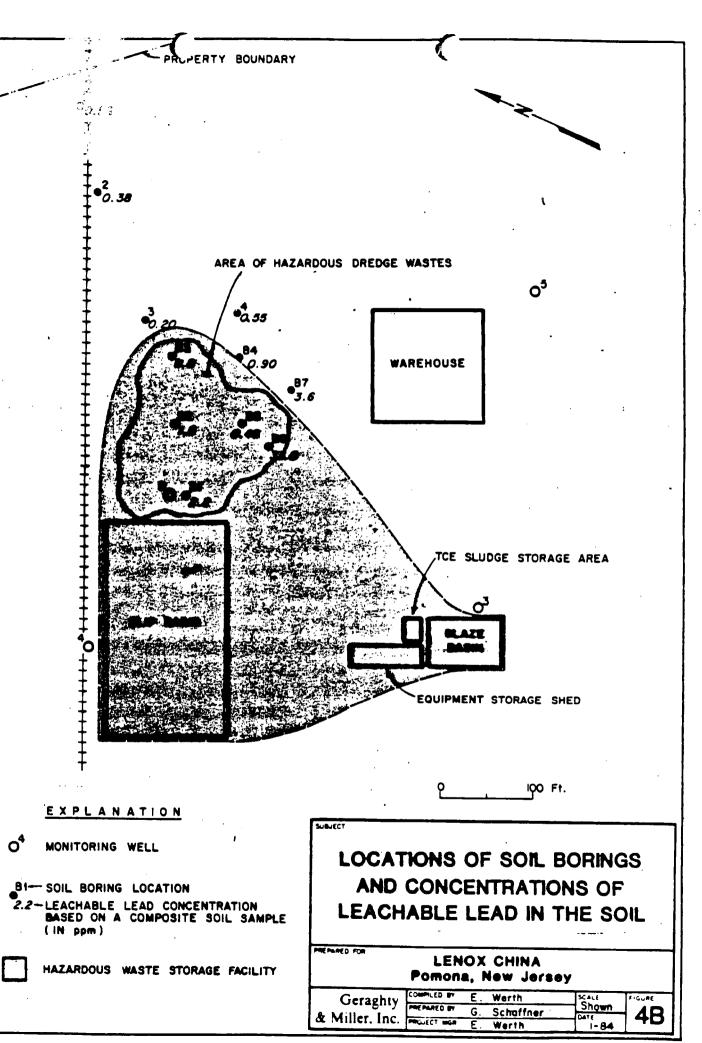
Monitoring Well Construction Information

Between September 23 and 29, 1982, Monitoring Wells 1, 2 and 3 were drilled at locations believed to be upgradient (MW1) and immediately downgradient (MW2 and MW3) of the combined waste facilities (Figure 4A). Water-level information collected from the monitoring wells and an existing

Volume 15 MW \$2?

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water-table piezometer (Na. 5) over the period October 5 to 26, 1982, was used to locate an additional monitoring well (MW4) which was installed on November 22, 1982.

The four monitoring wells were installed under the direction of Geraghty & Miller, Inc. by the A.C. Schultes Well Drilling Company (Woodbury, New Jersey), a New Jersey-licensed driller. Each well was drilled to an approximate depth of 32 feet below land surface with the screened portion of each well straddling the water table. Depth to the water table at the time of drilling averaged about 12 feet below land surface, with the screens generally starting at about 8 feet below land surface. The wells were drilled using hollow stem auger equipment (6-inch inside diameter) and were constructed of PVC casing and 20 slot screen. Sections of screen and casing were pressure fitted together and secured with stainless steel sheet metal screws to avoid the use of PVC solvents and glues. The annular space opposite the screen was packed with Jessie Morie No. 1 gravel and capped with a bentonite seal to prevent the direct infiltration of surface water into the gravel pack. The annular space above the bentonite seal was filled with a cement grout to support the upper portion of the well and to anchor a 6-inch diameter protective steel casing set over the PVC casing.

Soil samples from the auger flytes were examined on a continuous basis and split spoon samples were collected every 5 feet or at perceived changes in the lithology of the substrate. All wells were logged and a copy of the log for each is appended. Undisturbed (Shelby tube) soil samples were collected from Monitoring Wells 1, 2, and 3 and from the bottoms of the slip

and glaze basins to determ. — Itical and horizontal permeabilities for the soils and waste material. The results of the falling head and triaxial permeameter analyses—on the soil/waste material are also appended along with calaculations made by Clarence Welti Associates soils laboratory.

An additional RCRA monitoring well (No. 6) was drilled and installed on December 8, 1983 to replace Monitoring Well 2, when it was determined that the latter well tapped an area where dredge waste from the slip basin had been spread. The new replacement well was constructed in the same fashion as the previously installed wells.

Detailed information on the construction of all the RCRA monitoring wells is provided in Figures 4C through 4G.

SECTION :

PREVENTIVE PROCEDURES (40 CFR 122.25(a)(4-6)(8-9)

Lenox China has developed and implemented procedures designed to identify and control potentially hazardous materials before they enter the manufacturing plant, during their process use and as waste material. These procedures stress that potentially hazardous materials will not be introduced to any process where a reasonable substitute is available.

Scope of Procedures

- Handling hazards
- Flood and runoff related problems
- Water supply contamination
- Personnel exposure

Preventive Procedures

1. Handling Hazards:

Lenox China is not involved with the unloading of hazardous wastes. However, materials which are potentially hazardous, or may become hazardous wastes, are used in and generated by process operations. Specifically these materials are lead and trichloroethylene both of which are controlled at their point of entry in accordance with the following procedures:

a) Control of Lead Substances:

Procedures for the receiving, storage, processing, spill control and disposal of lead bearing substances (excluding leaded glaze waste stored in the glaze basin and recycled at off-site locations) have been established in accord with guidelines published in the Federal Register, Volume 45, No. 98. These are:

c) Under no circumstances are these citims be saved or used for other materials or purposes.

5. The Hazardous Waste Manifest

- a) The Maintenance Secretary is to set aside a sequentially numbered Hazardous Waste Manifest (blank NJDEP form appended) and notify the Senior Plant Engineering Technician.
- b) The Maintenance Secretary is to be notified one week_in advance of any planned waste TCE removal action_(offsite shipment) by the Senior Plant Engineering Technician in order to complete the following record keeping actions:
 - 1) The Maintenance Secretary is to prepare the Hazardous Waste Manifest in accordance with previously identified State instructions.
 - The Senior Plant Engineering Technician is to coordinate the proper handling of Hazardous Waste Manifest papers with the Receiving Manager and the Hazardous Waste Transporter.
 - 3) The Senior Plant Engineering Technician is to return the signed yellow "Generator's Copy" of the Hazardous Waste Manifest to the Maintenance Secretary for retention in the files.
 - 4) The Maintenance Secretary is to follow up on the Manifest to make sure that the pink "Disposer's Copy" of the Manifest is received from the designated disposer within 35 days of return. If "Disposer's Copy" is not received, the Maintenance Secretary will initiate tracing procedures as required in 40 CFR 262.41 (incorporated by reference).
 - 5) Copies of the Hazardous Waste Manifest are to be retained in the Maintenance files for three years.

6. Collection and Disposition of TCE Sludge

- a) The Senior Plant Engineering Technician is to maintain an adequate inventory of 30 gallon plastic drums for TCE collection and 30 gallon fiber drums for spill clean up.
- b) The Senior Plant Engineering Technician is to insure that TCE sludge is collected in 30 gallon plastic drums by appropriate Maintenance personnel and in accordance with Degreaser Sludge Draw-off Practices (as specified in the appended procedures)...

- c) The Maintenance Forklift Operator is to transport full sludge drums from the collection station to the sludge drum storage area behind the equipment storage shed. He is to be certain that all drum closures are secure before moving any drums.
- d) The Senior Plant Engineering Technician is to prepare a Hazardous Waste Label with date and Manifest number and affix it to
 the drum. A blank copy of the label is appended for reference.
 He is to also number the drums sequentially and label "Trichloroethylene Sludge RQ 1000 ORM A UN1710 L6861" by painting this
 identifier on the body of the drum.
- e) The Senior Plant Engineering Technician is to direct that full sludge drums be weighed with a record of these weights kept on file at the plant. These weights are to be forwarded to the Maintenance Secretary for use on the Hazardous Waste Manifest.
- f) The Senior Plant Engineering Technician is to arrange to have sludge transported to a licensed hazardous waste disposal incineration facility by means of a hazardous waste hauler.
- c) Control of Miscellaneous Solvents, Cleaning Agents, etc.

A description of control procedures for these miscellaneous materials is appended.

2. Flooding and Runoff

Flooding and runoff do not pose a significant threat in terms of the accidental release of hazardous materials at the Lenox China plant. Flooding has never occurred in the hazardous waste storage areas nor is it likely to as demonstrated by the information provided in Section 1 (Facility Location Information) of this application. Moreover, runoff is prevented from entering two (slip and glaze basin) of the three hazardous waste storage areas by the berms, dikes, and curbing that surround these facilities.

The remaining area, used to store trichloroethylene degreaser sludge,

is paved with an impermeable material which extends more than 300 feet from the storage area in all directions. The storage of trichloroethylene sludge in this area is accomplished using small (30 gallon) weatherproof (polypropolyene) drums that are easily maintained and inspected. The drums are kept sealed, except during filling operations. This together with frequent inspections and immediate spill recovery/cleanup actions, as necessary, serve to eliminate the accidental escape and migration of hazardous materials during intervals of precipitation.

3. Water Supply Contamination

The possibility of ground-water contamination is greatly minimized by the nature of the primary waste constituent, lead, which is readily adsorbed onto soil particles and is not mobile in ground water.

In addition, there are no discharges of hazardous materials onto the ground surface and containers of hazardous material are stored in paved areas. As a result there is no active accumulation of hazardous wastes on the site except for the registered facilities.

In order to verify that the quality of water provided by the two deep onsite production wells is suitable for potable use, Lenox:

- Samples each production well for lead and barium semi-annually.
- Samples each production well for nitrate, calcium, and fluoride annually.
- Samples water from the infirmary water tap for coliform bacteria on a quarterly basis.

These data are supplemented by and evaluated with the water quality information obtained from the shallow RCRA monitoring wells.

In the unlikely event that contaminants are detected and verified in the plant water supply, immediate action is to be taken to provide an alternate drinking supply (e.g. bottled water) while the proper and appropriate remedial action(s) are implemented.

4. Personnel Exposure

Exposure to the Hazardous Wastes generated at this location does not pose a threat to personnel. Moreover any remote threat is precluded by the protective clothing and respiratory protection required for normal operations or emergency response as specified in Section 7 and required under OSHA regulations.

SECTION 9

WASTE REACTION PRECAUTIONS (40 CFR 264.17)

Lenox China does not store reactive or ignitable wastes in any of the hazardous waste storage areas at the company's Pomona, New Jersey, plant. Moreover, although the different hazardous waste materials are segregated during handling and storage, they are not incompatible and if mixed would not react in a fashion deleterious to personnel health and safety and/or to the quality of the environment.

As the hazardous waste materials handled and stored by Lenox are not ignitable, reactive or incompatible, the 40 CFR 264.17 prevention standards are not applicable.

SECTION 10

ONSITE TRANSPORT OF HAZARDOUS WASTES (40 CFR 122.25(a)(10))

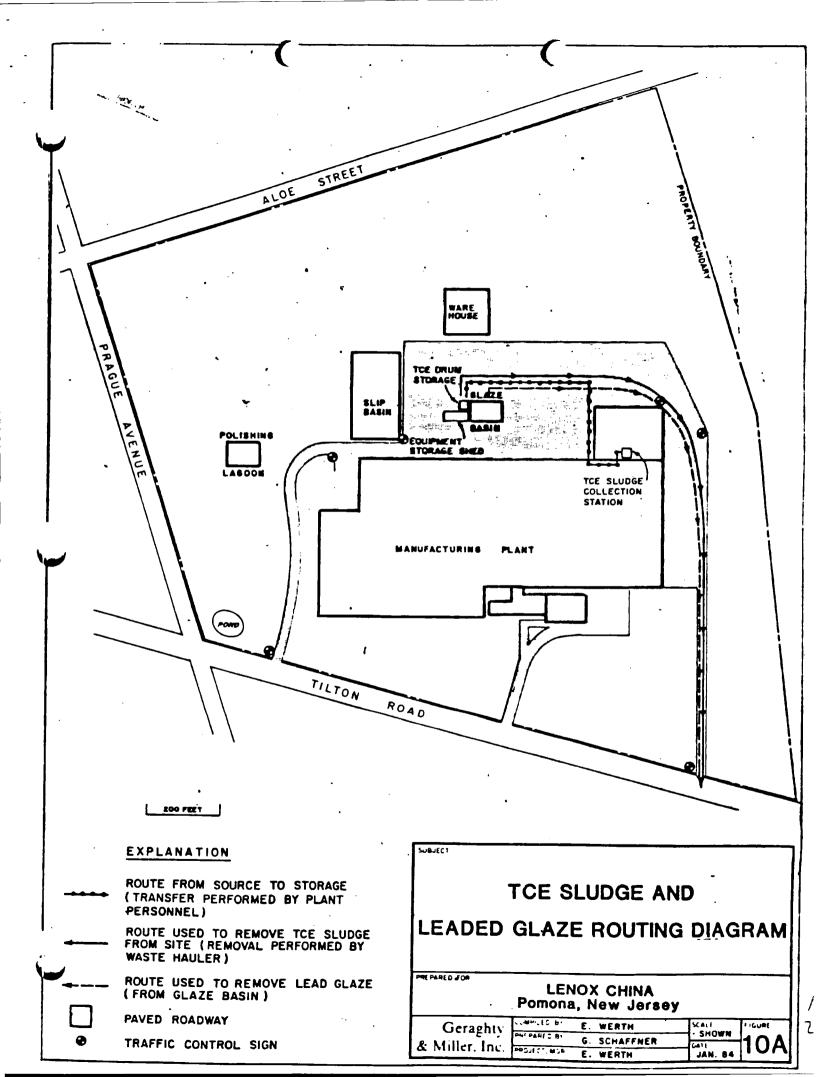
Lenox China's Pomona, New Jersey, plant does not receive any hazardous wastes from offsite locations and onsite vehicular traffic in connection with hazardous wastes is limited to the movement of small quantities of trichloroethylene (TCE) degreaser sludge (less than 75 gallons per occasion) and leaded glaze waste.

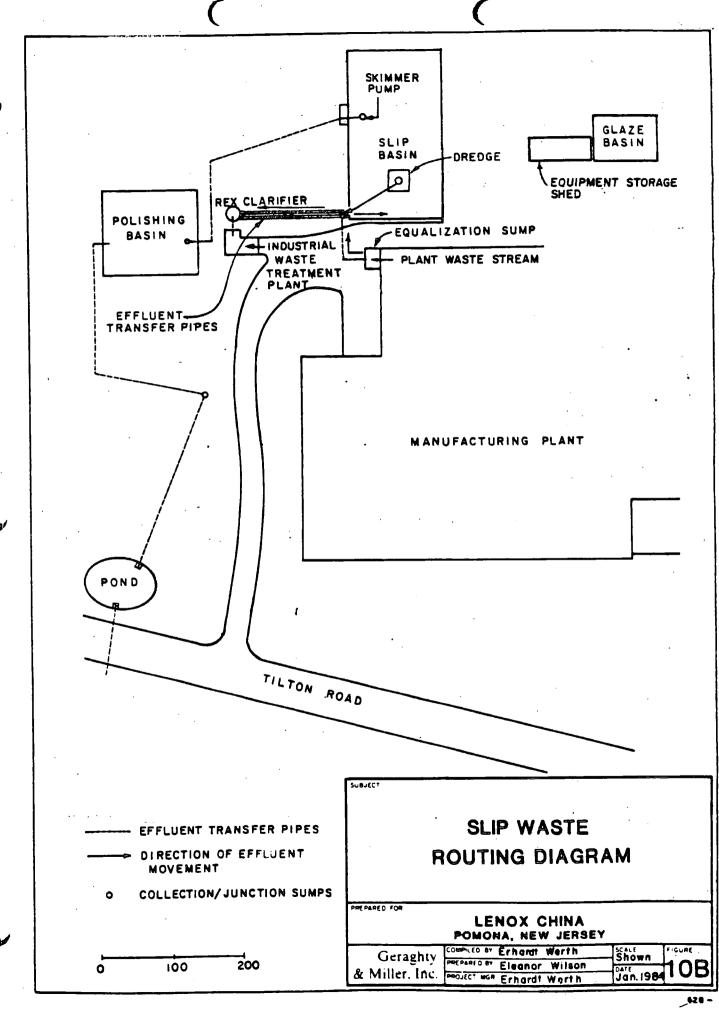
Approximately 5 to 10 gallons of TCE sludge is routinely collected from the degreaser sump and manually transferred to the storage area at the rear of the equipment storage shed along the route shown in Figure 10A. The stored TCE sludge is removed from the site by a state approved hazardous waste hauler as soon as 180 gallons (six 30 gallon polypropolyene drums) are accumulated. TCE is removed from the site in this fashion approximately once every three months.

Lenox China also handles leaded glaze and slip waste. Glaze wastes were placed in the glaze basin between 1954 and 1970. Twenty-eight tons of this material was removed and recycled between 1980 and 1981. During such operations the area around the glaze basin is cordoned off from all traffic in order to facilitate and ensure safe truck loading operations which require heavy equipment. Approximately 20 tons of glaze is loaded into and removed by each truck resulting in a total truck weight of approximately 70,000 pounds. This load can be sustained by the asphalt roadway leading to and surrounding the glaze basin as bituminous concrete pavements have a typical bearing capacity of 50,000 pounds/axle.

A number of traffic control signs (stop/slow signs) exist at the facility. These are supplemented by roadway arrows and lanes which direct and separate traffic. The locations of existing stop signs are shown on Figure 10A.

Slip waste, which contained lead betwen 1970 and 1981, was discharged into the slip basin through the buried effluent transfer pipe system shown in Figure 10B. The slip basin acts as a primary clarifier treating the waste stream by sedimentation. Sludge accumulating in the basin is periodically pumped to the industrial waste treatment plant where it is dewatered and treated for the purpose of rendering it non-hazardous. Transfer of the potentially hazardous sludge from the slip basin to the industrial waste treatment plant is also accomplished through piping. Treated sludge is removed from the facility by truck. However after passing through the onsite waste treatment plant the sludge is no longer hazardous because it has a leachable lead content of less than 5.0 ppm.





4-25

SECTION 12

CLOSURE AND POST-CLOSURE INFORMATION (40 CFR 264.112 and 264.118)

SLIP BASIN

Lenox China manufactures fine china by blending clay and other aluminosilicates which are coated or glazed with lead glass after an initial kiln firing. Process wastes containing lead were discharged to the Slip Basin (facility) between 1970 and 1981. As this facility (Slip Basin - RCRA Facility No. NJD002325074) is an integral part of Lenox China manufacturing process, closure is not anticipated prior to termination of manufacturing at the Pomona, New Jersey, plant. At that time Lenox China will close the facility in accord with the following plan which complies with 40 CFR 265. 111 and eliminates the post closure escape of hazardous constituents to the environment.

Facility Description

The Lenox China Slip Basin, which is a component of the on site industrial waste treatment system, has received process wastes since the beginning of plant operations in 1954. Waste materials placed in the slip basin between 1954 and 1970 were limited to clay, nepheline syenite (feldspar) and flint. The discharge of process washwater containing glaze which is a combination of clay, lead, carbonate, frit (low solubility lead compounds in glass form) and silica to the facility began in 1970 and continued until 1981. Starting in 1981 a reclamation system designed to recycle glaze wash internally was installed to eliminate any further discharge of lead bearing

materials to the facility. The meaning wolume of waste in the facility is approximately 1,200,000 gallons. Material currently in the slip basin has a high clay content and a total lead content of less than 2 percent.

The facility is located approximately 50 feet from the northern corner of the main plant (manufacturing) building. The basin is rectangular in shape and measures approximately 100 feet by 200 feet. It extends to a depth of approximately 7 feet below land surface and is surrounded by a berm or dike having an average height of 3 to 4 feet. The dikes show no evidence of leakage. erosion and/or slumping.

The base of the facility rests in unconsolidated deposits composed primarily of fine to medium grained sand with some clay. Thickness of the unsaturated zone between the bottom of the facility and the water table ranges from 10 feet to 13 feet depending upon seasonal variations in precipitation and evapotranspiration.

Although the bottom of the facility is unlined the high clay content of the waste material effectively reduces the infiltration of any contaminants to the ground-water system. Falling head and triaxial permeameter tests performed in November 1982 on samples of the clay waste from the facility indicate that the vertical permeabilities of this material range from 6×10^{-6} cm/sec to 3×10^{-7} cm/sec.

The slip basin serves as the primary clarifier for Lenox China's industrial waste plant system treating the waste stream by sedimentation.

Sludge accumulating in the facility is routinely removed (using a sludge

suction pump) and sent to a vacuum filter more it is dewatered and treated with diammonium phosphate to render it non toxic (i.e. reduce leachable lead concentrations to well below toxic levels). The resultant non-hazardous sludge is disposed of at a local landfill.

Prior to closure (termination of manufacturing operations) Lenox China will remove all lead bearing waste material from the facility.

RCRA Subpart G Closure Plan (40 CFR 265.111)

Once the waste sludge has been removed from the facility and treated, Lenox China will close the facility by removing all residual soil contamination occurring in the floor and walls of the slip basin. Soil(s) will be determined to be contaminated if they are found to leach lead at concentrations greater than 5 ppm using EP Toxicity testing procedures. In order to delineate the extent of any residual contamination requiring removal, soil samples will be collected at depth increments of 6 inches at numerous locations in the floor and walls of the basin and analyzed for their leachable lead content by a chemical laboratory certified by USEPA and the State of New Jersey.

Contaminated soil removed from the facility will be dewatered and treated on site to convert any soluble lead carbonate in the soil to insoluble lead phosphate. This treatment has been demonstrated to reduce lead concentrations in the leachate to less than 0.3 ppm. After treatment the non-hazardous soil will be disposed of at a local permitted landfill (Woodbine Landfill, Fiddler Hill Road, Woodbine, New Jersey) located approximately 20 miles from the site.

CLOSURE AND POST-CLOSURE INFORMATION (40 CFR 264.152 and 264.118)

GLAZE BASIN

Lenox China manufactures fine china by blending clay and other alumino silicates which are coated or glazed with lead glass after an initial firing. Process wastes containing leaded glaze have been stored in an on-site basin (Glaze Basin - RCRA Facility No. NJD002325074) since the plant began operations in 1954. Lenox China intends to implement its closure plan by June 1984 in accord with (40 CFR 265.111) and in a manner which eliminates the post closure escape of hazardous constituents to the environment.

Facility Description

The Lenox China's Glaze Basin "the facility" received process wastes consisting of clay, lead carbonate, frit (low solubility lead compounds in glass form) and silica. Approximately 1,600 tons (1,200 cubic yards) of glaze having a high clay content and a total lead content of between 35 and 40 percent was deposited in the basin between 1954 and 1970. Discharge to the basin was terminated in 1970. The maximum volume of waste in the facility at any given time was approximately 1,600 tons (1,200 cubic yards.).

As the lead content of the waste has economic value, this material is periodically removed from the basin and sold to permitted smelters. However, because the feasibility of the sale and subsequent recycling of the lead waste depends on market conditions and the smelters ability to accept the waste, Lenox China's recycling activities do not follow a regular

Smelting (Pedricktown. New Jersey) indicating its willingness to purchase the waste for recycling. It is anticipated that all negotiations will be completed, all state and local permits obtained and the waste removed and transported to National Smelting by June 1984.

The glaze basin is located near the center of the Lenox China plant site approximately 100 feet east of the main plant (manufacturing) building. The basin is rectangular in shape and measures approximately 60 by 90 feet. It extends to a depth of approximately 6 feet below land surface in unconsolidated deposits which consist primarily of fine to medium grained sand with some clay. At no time has the bottom of the facility been in contact with the water table which occurs at a depth of between 11 feet and 13 1/2 feet below land surface.

A low asphalt curb surrounds the facility and the bottom of the basin is not lined. However, test's on the glaze waste in the facility indicate that it has a vertical permeability in the range of only 1 x 10^{-6} cm/sec to 3×10^{-6} cm/sec. Moreover the results of an exploratory investigation conducted by Lenox China. Inc. in November 1980 to determine the extent of glaze penetration into the underlying strata indicate that there has been no measureable migration of wastes beyond the immediate confines of the basin. The results of the tests on soil/waste samples collected during this investigation are appended. A more detailed discussion of the nature (permeability) and extent of the wastes in this basin is provided in Section 4.

No waste material has been added to the glaze basin since 1970.

In recent years polyethylene sheet has been used as a temporary cover on the facility to prevent precipitation from infiltrating into the waste pile. This sheeting is the only item that will require decommissioning as there are no pumps, pipes or fixed structures associated with the facility. Some earth moving equipment is involved in the periodic recycling of waste glaze; however, this equipment is decontaminated on-site immediately after each use.

RCRA Subpart G Closure Plan (40 CFR 265.111)

After the remaining glaze waste has been removed as part of existing recycling operations, Lenox China will close the facility by removing all contaminated soil in the floor and walls of the basin. Soil(s) will be determined to be contaminated if they are found to leach lead at concentrations greater than 5.0 ppm using EP Toxicity testing procedures. In order to delineate the extent of any residual contamination requiring removal, soil samples will be collected at depth increments of 6 inches at numerous locations in the floor and walls of the basin and analyzed for their leachable lead content by a chemical laboratory certified by USEPA and the State of New Jersey.

Contaminated soil removed from the facility will be treated on-site in Lenox China's industrial waste treatment system to convert any soluble lead carbonate in the soil into insoluble lead phosphate. This treatment has been demonstrated to reduce lead concentrations in the leachate to less than 0.3 ppm. After treatment the non-hazardous soil will be disposed of at a local permitted landfill (Woodbine Landfill, Fiddler Hill Road, Wood-

bine. New Jersey) located approximately 20 miles from the plant.__

When all soils contaminated by contact with the waste material have been removed, clean fill will be placed in the basin to return the area to grade and the surface will be asphalted so that it conforms with the surrounding parking lot.

Anticipated Closure Schedule

Lenox China cannot know the precise date that the Regional Administrator will approve this plan before the fact. As a result, this closure plan identifies the estimated time to achieve project milestones from the time that the Regional Administrator approves the closure plan.

Activity (Milestone)	Estimated Completion (in months after RA approval)
RA approval	0 -
Testing program (residual soil contamination)	3
Removal of residual contamination (soil)	4
Onsite stabilization/treatment of residual contamination	4-5
Removal of stabilized contamination to permitted landfill	5
Placement and compaction of clean fill in basin	5
Placement of an asphalt cover over filled basin	5
Physical equipment decontamination	6
Engineer certification	6

Note: Should the RA require changes in this closure plant pursuant to the EPA's review [40 CFR 265.112(c)], Lenox China may have to amend the estimated schedule.

POST CLOSURE MONITORING:

AREA OF HISTORICAL SLUDGE DEPOSITION

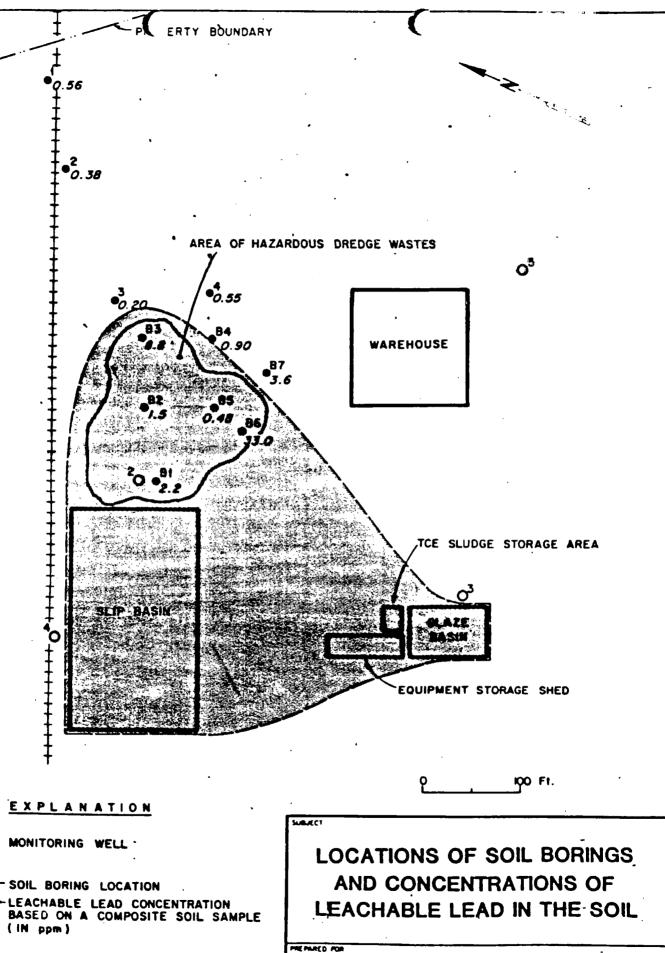
Physical Description

A small quantity of waste sludge was dredged from the slip basin during the early 1970's and spread over a limited area located immediately to the northeast of the slip basin. This area was subsequently paved (circa 1975) to accommodate an expansion of the parking facilities at the plant.

The lead content and leachability of the sludge now capped by the asphalt paving of the parking lot was determined through a soil boring, sample collection and EP toxicity testing program. The test program was conducted on February 4, 1983 to determine the extent of sludge having a leachable lead content in excess of the 5.0 ppm (parts per million) limit used to identify whether the waste is potentially hazardous.

Results of the testing program are provided in Figure 12A which shows the approximate extent of dredged sludge from which the concentrations of leachable lead exceeded the 5.0 ppm standard. The lithologic logs of the soil boring work performed for this investigation along with the results of laboratory tests performed on composite soil samples, are appended for reference.

In view of the low solubility and hence poor mobility of lead in ground-water systems, the presence of at least 10 feet of unsaturated deposits between the dredged wastes and the water table and the impermeable asphalt cover which prevents the infiltration of precipitation to the waste



HAZARDOUS WASTE STORAGE FACILITY

Geraghty & Miller, Inc.

Pomona, New Jersey

E. Werth
Shown
Shown
Out 1-84

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material thereby eliminating any leaching action, it is reasonable to conclude that this material does not represent a threat to personal health and safety or environmental quality as long as the impermeable cover is maintained.

Post Closure Maintenance and Inspection

Lenox China will inspect, maintain, and restrict that portion of the parking lot covering the hazardous dredge wastes to light vehicles only in order to ensure the integrity (impermeability) of the asphalt surface.

Post Closure Ground-Water Monitoring

A system of ground-water monitoring wells is in place to monitor Lenox China's hazardous waste storage facilities. This system includes one well located immediately downgradient of the wastes dredged from the slip basin. Lenox is and will continue to monitor the ground water at this and the other well locations for lead, sulfate, total dissolved solids, specific conductance, and other selected constituents until such time as it has been demonstrated that there is no leaching from this facility. At such time, Lenox will request USEPA/NJDEP permission to discontinue or modify the post closure monitoring program.

SCHEDULE A.

· **

LENOX CHINA
TILTON ROAD
POMONA, NJ 08240
EPA ID#NJD002325074

Estimated Cost of Closure (1983 Dollars) (for Glaze Basin)

Lenox China estimates the cost of physical closure as follows:

	•
Soil Testing Program	\$ 3,300.00
Removal of Residual Soil Contamination/Treatment in Onsite	
Industrial Treatment Facility	207,600.00
Spill Prevention Controls	500.00
Regrade with Clean Fill	18,500.00
New Cover with Asphalt Cap to Conform with the Surrounding	
Parking Lot	3,600.00
Decontaminate Equipment	2,500.00
Certification by Registered Profession	al
Engineer	1,800.00
85% for contingencies	202,100.00
	\$439,900.00

Amendments/Adjustments

Closure costs are estimated as of January 10, 1984. Lenox will adjust its closure cost estimate by January 25, 1985 which is within 15 days of the anniversary date of the initial closure cost estimate.

Lenox will also adjust the closure cost estimate to reflect any significant modifications to this plan. Any such modification will be made via an attachment describing the modification, the date of modification, and any changed cost estimates.

DESCRIPTION OF SOIL SAMPLES COLLECTED IN THE AREA NORTHEAST OF THE SLIP BASIN AT LENOX CHINA, POMONA, NEW JERSEY

	Depth Interval (inches below land surface)
Lithologic Description	land survace)
Boring B1	
Sand, tan to brown, medium grained	0 - 6
Clay (waste sludge), gray to white	6 - 7
Sand and gravel, dark gray to brown	7 - 16
Clay (waste sludge) white to gray recess with pieces of brown	
paper	16 - 25
Sand and gravel, brown	25 - 28
Sand, brown with some brown to gray clay streaks and traces of	
brown paper	28 - 36
Clay, stiff, white with some tan to light brown sand	36 - 43
Sand, medium grained, orange-brown	43 - 48
Clay, stiff, grayish-brown	48 – 49
Sand, dark black staining with some gravel	49 – 54
Sand, gray to dark gray	54 - 56
Wood	56 - 59
Sand, fine grained, tannish-gray to light brown with some	
medium to coarse sand and gravel	59 - 72
Sand and gravel. clayey, tan to orange	72 - 90
Sand and gravel, coarse grained, gray to white with tan to brown	90 - 102
Boring B2	
Gravel with some coarse sand	0 - 8
Sand, fine to medium grained, orange interbedded with some thin	
streaks of brown sand and black organic material	8 - 18
Sand, fine to medium grained, orange with some gravel	18 - 34
Sand, medium to coarse grained, dark brown with some plant roots	
and clay	34 - 42
Sand and gravel, gray, tan, brown and orange, extremely clayey	
(in clay matrix)	42 - 53
Clay (waste sludge), stiff, grayish white with occassional	
shreds of paper	53 - 71
Sand, dark brown to dark gray with roots and assorted decaying	
organic material	71 - 72
Clay (waste sludge), soft, grayish-white with some orange sand	
and gravel	72 - 74
Sand and gravel, gray with some gray clay	74 - 90

Lithologic Description	Depth Interval (inches below land surface)
Poping P2 (Cont.Id.)	
Boring B2 (Cont'd.)	y company and the
Sand and gravel, brown to orange with some pebbles Clay (natural) stiff, silty with streaks of sand cemented by	90 - 94
iron oxide	94 – 108
Boring B3	
Gravel, coarse with some coarse sand	0 - 6
Sand, fine to medium grained. orange with some pebbles Sand, fine to coarse grained, interbedded with stiff lenses of	6 - 18
orange clay	18 - 34
Clay (waste sludge), gray to white, stiff with some decaying	·
organic matter	34 - 38
Clay (waste sludge) gray, soft	38 - 53
Sand, fine to medium grained and decaying organic matter	53 - 54
Clay (waste sludge) gray, soft	54 - 59 59 - 65
Sand, fine to coarse grained with decaying organic matter	לם – לל
Sand, fine to medium grained, light brown to dark brown, slightly clayey with traces of decaying organic matter	65 - 72
Clay (waste sludge) gray, soft	72 - 75
Sand, fine to coarse grained, orange to light brown with pebbles	12 - 15
and decaying organic matter	75 - 85
Sand, fine to coarse, with some gravel, pebbles and streaks of	.,,
clay	85 - 100
Clay (natural), gray, stiff, sixlty with streaks of sand	
cemented by iron oxide	100 - 103
Sand, fine to medium grained, tan to orange with thin streaks	
of gray clay	103 - 108
004	•
Boring B4	
Gravel, coarse with some coarse sand	0 - 6
Sand, fine to medium grained, orange with some pebbles	6 - 18
Sand, fine to coarse grained with some pebbles and thin streaks	U 10
of orange clay	18 - 45
Clay (waste sludge), gray to white with interbedded layers of	,
decaying organic matter	45 - 54
Sand, fine to medium grained, tan to black slightly clayey with	
decaying organic matter	54 - 62
Sand, fine to medium grained, olive green, with some pebbles	
and organic debris	62 - 75
Sand, medium to coarse grained, olive to tan with some pebbles	
and streaks of grayish-green clay	75 – 88

A - 39

no de la compania de	Depth Interval (inches below land surface)
Lithologic Description	
Boring B6 (Cont'd.)	
Sand, fine to medium grained, gray to green Sand, fine to coarse grained, tannish-brown to gray with pebbles streaks of organic material and iron and oxide staining Sand, fine to medium grained, gray with some silt and clay Sand, fine to coarse grained with numerous pebbles	56 - 72 72 - 90 90 - 105 105 - 108
Boring B7	
Gravel, coarse with some coarse orange sand Sand, medium to coarse grained, orange with some coarse gravel Clay (waste sludge), grayish-white, stiff Sand, fine to coarse grained, black with decaying organic matter Clay (waste sludge), grayish-white, stiff Sand, fine to coarse grained, black with traces of organic matte Sand, fine to coarse grained, gray to dark brown with thin	21 - 44
streaks of black organic matter and a 1-inch thick lense or waste sludge Sand, fine to medium grained, light brown to orange with some gravel and pebbles	54 - 72
Sand, fine to coarse grained, brown to gray with pebbles, steaks of organic matter and iron oxide staining	72 – 90
Sand, fine to medium grained, gray to dark gray with some silt	90 - 108

FEB 22 1983

New England Reps
Gifford Precision Eng., Inc.
P. O, Box 1017
iddletown, Conn. 06457
(203) 346-1223
(603) 632-7567

Mid-Atlantic Associates

3618 South 1-85 Charlotte, N. C. 28208 (704) 392-1309 GEL & ASSOCIATES INC.

234 RT. 70
MEDFORD, N. J. 08055
(609) 654-1441

Midwestern Office

Danto Enviro. Consultants 4022 Stonehaven Rd. South Euclid, Ohio (216) 382-1719

Southeastern Division

250 Arizona Avenue H. E. Atlanta, Georgia 30307 (404) 377-4248

PART PROFE

AIR - WATER - ENERGY - INDUSTRIAL HYGIENE - NOISE - WASTE

STACK & EXHAUST TESTING

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- DESIGN OF AIR/WATER/NOISE POLLUTION CONTROL SYSTEMS
- . BACTERIA & LIMNOLOGY STUDIES
- . SPECIFICATIONS / DRAWINGS
- . WATER / WASTE WATER / BIOASSAYS
- CHENICAL ANALYSES

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- GAS CHROMATOGRAPHY, L.R. &
- ENVIRONMENTAL IMPACT STUDIES

February 18, 1983

Lab Report #12:876

TEST REPORT #15.099

Certificate of Analysis

Lenox China Tilton Road Pomona, NJ 08240

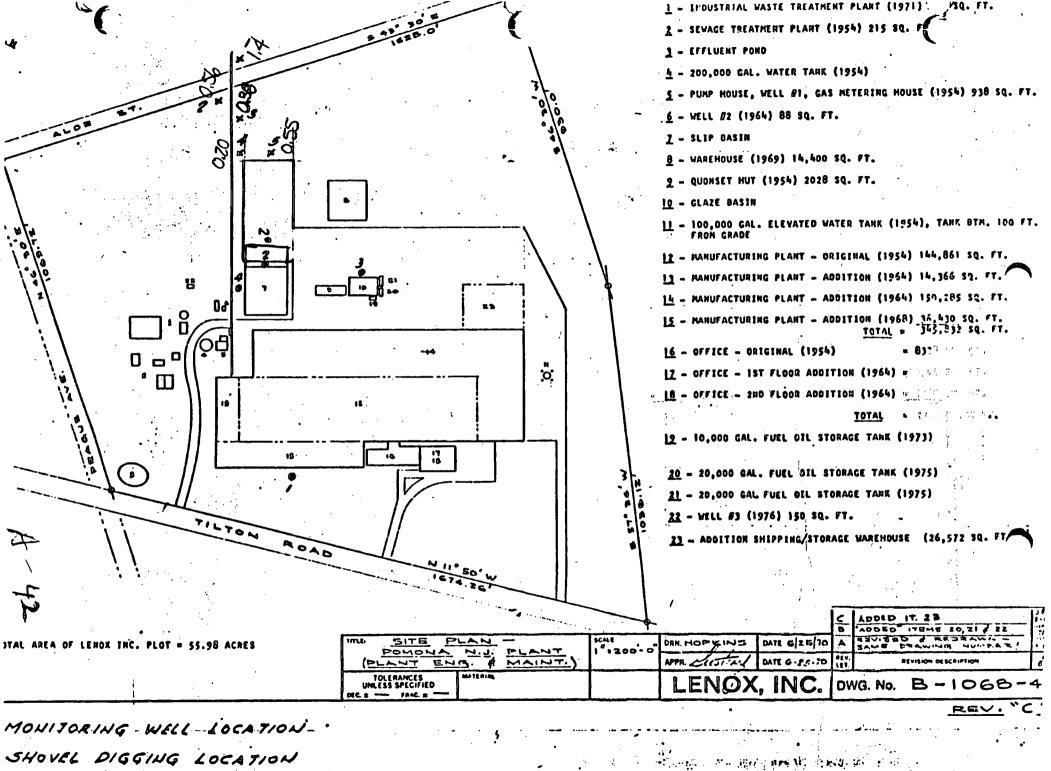
Attention: Mr. John Kinkela

The results are listed below of the analyses performed on the composite soil and sludge samples from your facility. The samples were submitted to ROSSNAGEL & ASSOCIATES on February 4, 1983.

It was requested that an EP Toxicity extraction/separation procedure be performed on each sample, followed by lead analysis on the extract. The extraction/separation procedure was performed as it appears in FEDERAL REGISTER, volume 45, No. 98 page 33127.

Sample	Lead in EP Toxicity Extract (mg/liter)	Lead Allowable Limit (mg/liter)
B-1 0-54	2.2	2.14500
B-1 72-102	.20	THE RESERVE
B-2	1.5	A STATE OF THE PARTY OF THE PAR
B-3	8.8	
B-4	.90	18 5.0 M
B-5	48	1
B-6 33-36	22	
B-6 36-44	43	
B-7	3.6	2000

TABLE :



SHOVEL DIGGING LOCATION

The general stratigraphic sequence of the major water-bearing formations occurring below the Lenox China plan is illustrated in Figure 13C.

Water-level information was collected from four on-site monitoring wells and one piezometer between October 5, 1982 and February 4, 1983, in-order to determine ground-water flow conditions in the water-table aquifer. Automatic water-level recorders were installed on three monitoring wells (1, 2, and 3) to develop a data base for use in the interpretation of hydraulic gradients and the selection of an appropriate location for an additional downgradient monitoring well. Water-table contour maps developed from data collection after the installation of a fourth well are shown in Figures 13D and 13E. A summary of the water-level data is also provided at the end of this section.

Ground water on and in the immediate area around the plant site flows to the north-northeast with an apparent ground-water mound in the vicinity of the slip basin influencing 'local flow conditions. The location and configuration of the mound implies that some of the effluent in the slip basin is infiltrating to and recharging the water table. However, the data also suggest that pumpage from onsite supply wells screened in the lower Cohansey Sand may be affecting flow in the water-table aquifer and controlling the extent of the mound.

Based on the hydraulic gradient shown in the water-table contour maps, horizontal soil permeability values ranging from 1.75 x 10^{-3} cm/sec to 4.5 x 10^{-6} cm/sec and an average porosity value of 35 percent for the upper Cohansey Sand (Barksdale, Paulos, Sokolowski and Sartor, 1983), it is esti-

WATER-LEVEL ELEVATION DATA FOR MONITORING

WELLS 1 THROUGH 4 AND PIEZOMETER 5

Elevation of Well/ Top of Casing		Elevation of the Water Table (feet above plant datum)			
Piezometer No.	(feet above plant datum)	10-5-82	10-26-82	11-23-82	2-4-83
1	107.32	92.83	92.16	91.93	94.32
2	107.96	92.25	91.91	91.70	94.06
3	105.13	92.50	91.97	91.72	93.04
4	105.11	-	-	92.24	95.31
5	102.21	92.46	92.15	91.77	94.17

Note: To convert elevation from plant datum to U.S.C. and G.S. datum (mean sea level) subtract 38.04 feet.

H-44

⁻ Indicates no data available.

SECTION 15

GROUND-WATER MONITORING DATA (40 CFR 265.90-265.94)

Ground-water samples were collected by Geraghty & Miller, Inc. from Monitoring Wells 1 through 4 between November 23 and 24, 1982, in accordance with the protocol provided in Section 14. Samples were analyzed by Measurement Sciences Corporation (Garden City, New York) which is certified in New Jersey for those parameters specified in 40 CFR 265.92 and required by the NJDEP. The results of the analyses are summarized on the following page with Monitoring Well 1 representing the background or upgradient well, Monitoring Wells 3 and 4 the downgradient wells, and Monitoring Well 2 tapping ground water beneath one of the storage facilities.

Plume Description

The available water-quality information is insufficient to determine whether a plume containing elevated concentrations of the facilities waste constituents exists in the ground water around the hazardous waste storage areas.

Although the results of future monitoring efforts could conceivably indicate increased concentrations of one or more waste stream constituents including the waste of greatest concern, lead, it is extremely unlikely that a plume of lead contamination would result in view of the chemicals very low solubility in ground water.

Results of Chemical Analyses on Samples From Monitoring Wells 1 Through 4. November 1982. Lenox China, Pomona, New Jersey (concentrations in mg/L, except where noted)

•		11 May 1		•
Parameter	Well 1	Well 2	Well 3	Well 4
Arsenic	<0.002	<0.002	<0.002	<0.002
Barium	0.07	0.07	0.08	0.07
Cadmium	<0.001	0.008	<0.001	<0.001
Chromium	<0.02	<0.02	<0.02	<0.02
Lead	<0.005	60	0.016	0.048
Mercury	<0.0005	<0.0005	<0.0005	<0.0005
Selenium	<0.002	<0.002	<0.002	<0.002
Silver	0.08	<0.01	0.02	<0.01
Fluoride -	<0.2	0.4	<0.2	<0.2
Nitrate	8.2	0.5	1.2	0.7
Iron	<0.05	0.08	28	0.22
Manganese	0.05	0.12	0.14	0.08
Sodium	9	35	50	24
Chloride	8	10	20	14
Total Organic Carbon	48	48	50	48
Replicate 1	47	-		-
Replicate 2	50	_	_	-
Replicate 3	53	_	_	-
Specific Conductance (umho/cm)	160	810	720	- 660
Replicate 1	160	-	720	660
Replicate 2	160	_	_	-
Replicate 3	160	<u>-</u>	-	-
pH (units)	4.5	4.9	5.9	- 4 E
Replicate 1	4.5	4.7	J.7	4.5
Replicate 2	4.5	-	-	-
Replicate 3	4.5	-		-
Total Organic Halides	0.03	0.09	0.21	- 0.07
Replicate 1	0.05	U.U)	U.ZI	0.03
Replicate 2	0.06	. -	-	-
Replicate 3	0.05	-	-	-
Sulfate	16	- 375	300	160
Phenols	<0.001	· <0.001		160
Total Dissolved Solids	78	540	0.002 550	<0.001 570
COD	<20	<20	<20	<20
Endrin	<0.00002	<0.00002	<0.00002	
Lindane	<0.0004	<0.0004	<0.0004	<0.00002
Methoxychlor	<0.01	<0.01		<0.0004
Toxaphene	<0.0005	<0.0005	<0.01	<0.01
2.4-D	<0.01		<0.0005	<0.0005
2.4,5-TP		<0.01	<0.01	<0.01
Alpha (pCi/L)	<0.001	<0.001	<0.001	<0.001
Beta (pCi/L)	<2	<2	<2	<2
Radium, Total (pCi/L)	4 - 2	10 - 2	19 - 3	9 - 2
Addition, focal (pct/L)	<2	2 - 1	<2	<2

SECTION 16

DETECTION MONITORING PROGRAM (40 CFR 264.98)

Lead (total) and trichloroethylene are the two hazardous waste materials handled and stored at the Lenox plant (see Section 2). The concentration limits for these hazardous wastes in ground water are as follows:

Constituent	Concentration Limit	Reference
Lead and Compounds Trichloroethylene	0.05 milligrams/liter 50.0 micrograms/liter	Table 1, 40 CFR 264.94

^{*} This chemical is not regulated by the State of New Jersey or the Federal Government at this time. A concentration of 50 ppb is currently being used by the NJDEP as a guideline concentration to protect the public health. Although this value will be used to gauge any detected concentrations, it does not have any statutory significance.

In addition to these two chemicals the remaining two rounds of detection monitoring will also include the list of constituents identified in Section 14. Details of the ground-water monitoring system used in conjunction with the waste storage facility monitoring program(s) are also provided in Section 14.

Results of the November 1982 ground-water sampling round (detection monitoring) collected in accordance with the procedures specified in Section 14 show that the hazardous waste lead occurs in samples from Monitoring Wells 2, 3, and 4. The value of 60 ppm reported for Well 2 must be discounted because it was subsequently determined that this well was installed within the boundaries of one of the waste storage facilities. The remaining values of 0.016 and 0.048 ppm reported for Wells 3 and 4, respectively, are below the concentration limit of 0.05 ppm provided in Table 1,

40 CFR 264.94 and therefore do not currently require the development and implementation of a corrective action program.

Should the levels of lead and trichloroethylene in ground-water samples obtained from the monitoring wells remain below the concentration limits provided below for the duration of the detection monitoring program (two additional quarterly sampling rounds), Lenox China will at the end of this period implement a compliance monitoring program in accordance with 40 CFR 264.99.

Details of the proposed compliance monitoring program are provided in Section 17.

The results of previous water-level measurements are summarized below:

Well/	Elevation of l/ Top of Casing		vation of th feet above p	e Water Tabl lant datum)	е
Piezometer No.	(feet above plant datum)	10-5-82	10-26-82	11-23-82	2-4-83
1	107.32	92.83	92.16	91.93	94.32
2	107.96	92.25	91.91	91.70	94.06
3	105.13	92.50	91.97	91.72	93.04
4	105.11	·	-	92.24	95.31
5	102.21	92.46	92.15	91.77	94.17

Note: To convert elevation from plant datum to U.S.C. and G.S. datum (mean sea level) subtract 38.04 feet.

Background Ground-Water Quality/Statistical Data Evaluation

It is not currently possible to confidently characterize background levels for the various contstituents comprising Lenox China's ground-water monitoring plan based on the singular round of data that is available. Similarly the limited data base precludes the use of statistical analyses to determine whether background levels have been exceeded at downgradient locations. The limited nature of the data base stems from an unforeseen and unavoidable delay in the completion of the monitoring well network caused by the necessity to have all monitoring well locations approved prior to installation by the New Jersey Department of Environmental Protection.

It was determined upon receipt of the results of the first sampling

⁻ indicates no data available.

round, which utilized Wells 1 through 4, that Monitoring Well 2 was in fact located within the waste facility. This was confirmed by a soil boring investigation conducted in the area immediately to the northeast of the slip basin (see Section 12 for further details). In view of these findings, Lenox China proposed installing an additional monitoring well at a location outside and downgradient of the facility for the purpose of replacing Monitoring Well 2 although the latter well would still be used to obtain water-level information.

The NJDEP was advised of Lenox China's intent and the location of the proposed well on March 6, 1983. The department responded to Lenox China's request for approval on June 3, 1983 at which time the NJDEP indicated that it was not currently prepared to approve the location or authorize the installation of the replacement well but that its decision on this matter would be provided at some future time. In the interim, the NJDEP requested that Lenox proceed with the quarterly monitoring of all existing wells in continuation of the program initiated in November 1982.

Lenox China informed the NJDEP on June 13, 1983 that the existing monitoring well network was not in compliance with RCRA requirements (40 CFR 264.97) and was therefore inappropriate for regulatory monitoring purposes. Lenox reasoned that any state mandate committing company materials and resources to such a sampling program was capricious and arbitrary. The problem was discussed again with the NJDEP on August 22, 1983 at which time Lenox China again requested approval of the proposed replacement well in order to resume quarterly sampling.

Lenox China received no response from the NJDEP in connection with their reiterated request nor did Lenox receive any other form of instruction in connection with this latest appeal. As a result, no action was taken by Lenox until approval of the proposed replacement well was received from the NJDEP in the draft NJPDES initial interim permit (No. NJ 0005177) as part of the initial draft NJPDES permit issued to Lenox on November 4, 1983.

Lenox proceeded with the installation of the replacement well (Well 6) less than 10 days after receipt of NJDEP approval. The new well was installed on December 7. 1983 and the completed monitoring system (now fully in conformance with RCRA requirements) was sampled, in accordance with the procedures and protocols established in this application, on December 28, 1983. The results of this latest round of sampling (December 1983) were not received from the analyzing laboratory in time to be included in this document: however, this information will be included in Lenox China's next submission to the U.S. EPA.

A complete identification of background concentrations and evaluation of statistical significance will be performed and the results submitted as soon as one year of quarterly monitoring data has been obtained.

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JAN 11 1985

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Charles Krauss, Chief, Southern Region, Ikil

FIGH:

Jones E. Hacilton, Chies, Southern Parton

Enforcement Higgert, IFA:

SHAPET:

RCA Inspection - Lenox China Calloway Township, Atlantic County

Attached hereto is a copy of the IAR inspection report for the joint PCIA inspection conducted at Lenon China on September 25, 1644 by John Tomsiello, Enforcement, Enthy Laphan, IAR, HARRY, and Mary Jeruigan, IAR. The following deficiencies were noted during the inspection:

- 1. Slip Easin only C" to 1' of freeboard. Also, excessive sluge in basin, and be receved.
- b. Glove Lasin (lent unsue) the plantic liner should overlap the bitrainum bens to prevent min unter fra: collecting under the liner and percolating through soil to the ground vater.

In midition to the above, the analytical results (attached heroto) of smples collected during the inspection indicate the following deficiencies:

Depolity Lexention	Preseter	lendy libit	Applytical Result.
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hell at	March	City in the	Fitti promise www.
ten a	177	List hiz	1,000 1/4
5.311 / L	ian de	1. 1. 1. A	· ()
3 (13 7-2)	170:	. D	1.5. 2. 13.2
Vc11 / .	$\mathbf{1ro}_{i}$:	S 1.4	.5(X) 1 (X)
hell F	Inoi	5 192.	.c.c
1011 FI	Crocs Teta Concentration		*27. pci/1 + or - 5.

Attack

Form ADM-012

MEM	EW JERSEY STATE DEPARTMEN	T OF ENVIRO	NMENTAL PROTECTION	ON:
то	LABORATORY SERVICES, AND IC PARKWAY, FOR DWR SOUTHERN REGION, 147- POSPECT STREET	DATE	DEC. 17 1984	_
	GERALD NICHOLLS, Ph.D., BUREAU OF ENVIRONMENTAL		AAA	
SUBJECT_	LC#'s 41211 - 41214		\ 4 .	

The radioanalytical results for the above listed samples are transmitted herewith. If you have any questions regarding these results please contact me.

GN:jmt

cc: Dr. Eileen Hotte, Chief, BEL

Ms. Pat Gardner, BEL Mr. Reynaldo Obed, BEL

Mr. John Tomasiello, DWR, Prospect Street

DEFENUE OF

Al ELFI...

TKA: 1959 12/17-2

LABORATORY CONTROL NUMBER	CEPT ALPHA CEPTRATION (pCi/1)	GROSS BETA CONCENTRATION (pC1/1)	Ra-226 CONCENTRATION (pCi/1)	LOCATION
41211	4.23 ± 4.45	5.82 ± 2.38	0.58 ± 0.19	Lenox China Well #7
41212	0.77 ± 1.89	3.43 ± 2.11	0.40 ± 0.18	Lenox China, Well #8
41213	7.27 ± 3.32	7.45 ± 2.38	0.55 ± 0.19	Lenox China, Well #6
- 41214	18.7 ± 7.9	28.8 ± 5.2	1.55 ± 0.27	Lenox China, Well #4
BLANK	-0.13 ± 0.51	0.25 ± 0.84	0.03 ± 0.12	· :
TYPICAL MINIMUM DETECTABLE ACTIVITY*	6.54	3.53	0.58	

Note: All uncertainties are given at the 1.96 sigma level of confidence.

^{*}Please note that these samples exhibit higher than normal minimum detectable activities due to their high dissolved solids content.

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7 ; 12		·
Station Identification Number	YR. MO. DAY HOUR	Sample No.
s c ,	11 18404215 1930.	(1) [18]
FIELD ANALYSIS	BACTERIOLOGICAL - DILUTIONS (REQUESTED)	(LAB) (39) P00403. 6. 05
[] Water Temp.°C. (2) P00010,	Total Coliform	Aixalinity as CaCo ₃ (40) P00410.
D.O - Winkler(3) P00300	Fecal Streptococci in i v ir in it in it.	☐ Min. Acidity as CaCo ₃ (41) P00436,
DO Probe (4) P00299.	Fecal coli MPN (24)P31615. #100 mi MF (25)P31613.	☐ Chioria: (42) P00940,
[] PH (Field) (5) P00400.	#100 ml	MBAS (43) P38260,
Sample Depth-11. (6) P00003.	Fecal Strept (26)F31677.	Phenois (44) P32730,
Stream (7) P00061.	7100mi ,	☐ Hardness - tot 45) P00900,
Gage Hefgnt-ft. (8)P00065	□ Tor coli (27)P31505.	Sulfate (46) P00945,
Spec Cond. (9)P00095		Oil & Grease (47) P00556,
Saint, C 00 (10) F00480.	BIOCHEMICAL OXYGEN DEMAND	Petroleum Hydrocarbons(48) P455(1).
(11)976211.	State	Cvenios (65) 460726,
CONDITION CODES	CONCA	□ A: -10' ue'' (50)PC1007.
Weather Condition (12) P06041.		Controver (a) March
	HOU-	Classician (CTPC1034)
[]	3 600 6-DAY(01)P. 11.	Tick trade (CIP 1047)
Co Section (15) P013	,	Sharocopynaids.
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T (-1 - 1) . (. (. 7)P006630.	To Cetar Pro-Course (37)PC (51)	18 1: 12 us . (5) 18 1 (6)
0.0000610	1 1 5 crosses (55) Fa . (6.)	7. 20 min (1) 1051092.
- To: Pipe west Is (15)P00625.	Suprenger Solids (34) Pc (153)	ABUITIONAL ANALYSIS
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PO ₂ e 1 (1), FreeEC.	, Enlet Spiras (36)Picos .	PORT SUBMITTE
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1.3.2.1 Land South Land art 1 West 1 to	rice Quality Inventory Con, FIOT (1 (Carp.)	in the test of the from D.E.P.

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Fam 4 (Golden), Fig. 1

他就是这种政治的中心人

NJDEP INSPECTION FORM

Report Prepared for:	
Generator 📈	
Transporter /_/	
HWM (TSD) facility	
	,
	Facility Information
Name:	LENOX CHINA, INC.
Address:	TILTON ROAD
·	POMONA, 08240
Lot:	1 Block: 453
. County:	ATLANTIC
Phone:	(609) 641-3700 (Ext. 3:
EPA ID#:	NJD002325074
Date of Inspection:	9/25/84
	Continination Developed
State on SDA porconnol.	Participating Personnel
State or EPA personnel:	11(1)
CONDUCTED MON. WELL SMANLING FOR THIS	MARI JERNILAN, KATARIN CAM
ractifity personner:	JOSEPH A SKLADANEK, FIANT ENLIN
	ALSO: BILL SIMMONS RE: NUSPICION A HARRY REIST RE: PERSONNEL
Report Prepared by <u>Name</u> :	MARY JERNIGAN
Region:	`
Telephone #:	
Reviewed by:	
Date of Review:	
acc of Review.	147-131
	Attachement (-1

	34	
7	•	YES NO N/A
:14A-6.3(a)2	How many monitoring wells are install hydraulically down gradient?	ed 45
	If yes, specify how many and the dept	id Wards when where apo, to
	Were previously fond Filled. #3-25.4' - 20 Survey #4-26.' - " "	# 6- 28.3' - 20' Screen # 7 - 24.0' - 10 " # 8 - 28.8 - 11 "
:14A-6.4(a)	Does the owner/operator have a ground sampling and analysis plan?	
	If no, please explain.	ch' i
•		
7:14A-6.4(a)	Does the plan include procedures and techniques for:	
	 Sample collection 10 10 10 10 10 10 10 10 10 10 10 10 10	ent 1 5 40
7:26-11.3	Surface Impoundments	. •
(Water Free).	Describe the design and operating featof the surface impoundment to prevent water contamination (e.g., liner lead collection system).	t ground-
(Carrier)	Sin	P Busing (Friend Cloritica) and
	1 - Pro - PUIL	string Lapoor. Also Tilde Rule Augusturm
	Give the approximate size of surface	
	Give the approximate size of surface ments (gallons or cubic feet). Fleas the types of waste stored and treated a feet of the types of waste stored and treated a feet of the	impound-
	Pulishing Fond - o. Hare	•
	Tilder Road Hard 0 115 mg.	•
7·26-11.3(a)	Is there at least 2 feet of freeboard impoundment?	
- Bosins - (Stored -doubt arosta Study	double polishing Lagrand	Clustics 6"-1" of Free

2 - plus : + Freakound. MARKET From collecting under the lines a percelating it served NoTE: stude should be

Summary of Findings

Facility Description and Operations

C-4

Describe the activities that result in the generation of hazardous Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes) Slip basin & 8,000 yells 1200 yds 3

(- >

GENERATOR INSPECTION CHECKLIST

(

		YES) NC	N/A
7:26-8.5	Hazardous waste determination			
	(a) Did the generator test its waste to determine whether it is hazardous?	X		
	Is the waste hazardous?			
	Is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used?	X		
	Has hazardous waste been shipped off site since November 19, 1980?	X	 .	_
	If yes, how many shipments, off site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain. THE - 2 3 shipments / 47 2 155 Luste 0:1 - 9 shipments 1983 984 Aug. The ways fram. Liq. Nos mex 758 Whate Manachian and RO (5 mark)	50 lb Sn.pm.	s / sn	ipmen
	The Man Liq. Nos MEK 758	165.	Isn.pn	- J.
7:26-7.4(a)1	Does the generator have an EPA ID #?	ist X	/shipmu	T 1456
7:26-7.4(a)4	Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient)	X		
7:26-7.4(a)4i	The generator's name, address and phone number?	X		
7:26-7.4(a)4ii	The generator's EPA ID number?	X		
':26-7.4(a)4iii	The transporter(s) name, address and phone number?	<u> </u>		
:26-7.4(a)4iv	The transporter(s) EPA ID number?	Δ		 .
:26-7.4(a)4v	The name, address and phone number of the designated TSD facility?	* /		'
:26-7.4(a)4vi	The TSDF's EPA ID number?			
:26-7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?	<u>X</u>		

NJDEP INSPECTION FORM

Generator /X/ Transporter /// HWM (TSD) facility /X/	
	
HWM (TSD) facility /X7	
Facility Information	
Name: Lencx China, Inc.	
Address: Tilton Road	
Pomona NJ	
Lot: 1 Block: 453	
County: Atlantic	
Phone: (6.09) 641-3760	
EPA 10#: NTD002325074	
Date of Inspection: 2/23/84	
Participating Personnel	
State or EPA personnel: Bruce Ven.ur	
Facility personnel: Tohn Kinkela. Manager Facility	
Albert Gustray, Director Faculities E	n n
Report Prepared by Name: Bruce Venuer	
Region: I Southern	
Telephone #: (609) 854 2958	
Reviewed by: 70	-
Date of Review: 2/27/47	

Attachinant

Summary of Findings

This seron facility is enguaged in the producti fine alma and glassmare. There are two the TSDF status was applied for These su total, slip bosin and glorge bosin, are described in the attacked document titled waste Facility pripared by Garaghty + Miller Inc Washwater used in to the facilities industrial mastemates treatment plant The mater from this plant is discharged ma NJPDES permit, to an adjacent creek. Sludge from this plant is rendered non-hazardous by the addition of a lead firing agent (diammonism phasphate and is then landfilles The other area of the facility which generates is the etching shop. TCE is used to The sludge generators from this process is stored The RCRA Port B Application, which as submitted to the State on 2/14/84 is attached to the report

11-2

Describe the activities that result in the generation of hazardous waste. Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes) FOOL 70-50

GENERATOR INSPECTION CHECKLIST

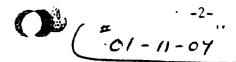
	•			
•		YES	NO	N/A
7:26-8.5	Hazardous waste determination	4.44		
•	(a) Did the generator test its waste to determine whether it is hazardous?			
	Is the waste hazardous?		· 	
	Is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used?	✓		
	Has hazardous waste been shipped off site since November 19, 1980?	<u>U</u>		
	of an average chimment made on a monthly		lvolé	
7:26-7.4(a)1	Does the generator have an EPA ID #?	<u> </u>	_	
7:26-7.4(a)4	Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient)	<u> </u>		
7:26-7.4(a)4i	The generator's name, address and phone number?	_		
7:26-7.4(a)4ii	The generator's EPA ID number?	<u> </u>		
7:26-7.4(a)4iii	The transporter(s) name, address and phone number?	<u></u>		
7:26-7.4(a)4iv	The transporter(s) EPA ID number?			
7:26-7.4(a)4v	The name, address and phone number of the designated TSD facility?			
7:26-7.4(a)4vi	The TSDF's EPA ID number?			
7:26-7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?			-



Lieb.

		YES	NO	A1 / A
7:14A-6.3(a)2	How many monitoring wells are installed hydraulically down gradient?	1123	NO	N/A
	If yes, specify how many and the depth of each.			
·	All 32 feet deep			
7:14A-6.4(a)	Does the owner/operator have a groundwater sampling and analysis plan?	<u></u>	<u> </u>	
	If no, please explain.			
7:14A-6.4(a)	Does the plan include procedures and techniques for:	,		
	 Sample collection Sample preservation and shipment Analytical procedures Chain of custody 	داداداد	_	<u>.</u>
7:26-11.3	Surface Impoundments			
	Describe the design and operating features of the surface impoundment to prevent groundwater contamination (e.g., liner leachate collection system).	10%	te 10	7 cm/
	Give the approximate size of surface impoundments (gallons or cubic feet). Please specify the types of waste stored and treated. Glaze basin 60 x 98 - 1200 co y ds			
	Slip birus - 1,500,000 or 18,500	> Sý	PA.	
7:26-11.3(a)	Is there at least 2 feet of freeboard in the impoundment?			-

():>



WASTE FACILITY

Nature and Extent of Waste

Waste materials placed in the SIIP basin between 1954 and 1970 were limited to clay, nepheline syenite (feldspar) and flint. The discharge of process washwater containing glaze, which is 35 to 40 percent lead carbonate, to the basin began in 1970 and continued until 1981. Lenox China has determined that material currently in the slip basin has a high clay content and a total lead content of less than 2 percent. Falling head and triaxial permeameter tests (Appendix A) indicate that the vertical permeability of the sludge in the basin ranges between 10⁻⁶ cm/sec to 10⁻⁷ cm/sec which is extremely low and very close to the "working" definition of "impermeable" established by the State of New Jersey in its September 1981 proposed additions and modifications to the New Jersey Hazardous Waste Management Regulations (New Jersey Administrative Code, Title 7, Subchapter F, Chapter 26). The total area of the basin is approximately 18,500 square feet, with an estimated capacity of 1,5000,000 gallons.

Between 1954 and 1970 the glaze basin was used to store process wastes consisting of clay, lead carbonate, frit (low solubility lead compounds in glaze form) and silica. Approximately 1,600 tons (1,200 cubic yards) of glaze having a high clay content and a total lead content of between 35 and 40 percent, as determined by Lenox China, was deposited in the basin prior to 1970. Permeability tests on the glaze waste indicated values of 2.69×10^{-6} cm/sec and 1.06×10^{-6} cm/sec in the vertical direction. Although slightly higher than the values reported for the slip basin, these values

Attachment

suggest that essentially sureable infiltration is expected to occur for any rainfall that might at intercepted by the basin's 3,500 sq ft surface area. Waste discharges to the basin were terminated in 1970 at which time Lenox China initiated action to recycle this material. To date, approximately 30 tons of the waste glaze have been removed with complete removal of all the residual glaze as the ultimate objective. A detailed outline of the Lenox China closure plans is provided in Appendix B.

GET COPY

Industrial Waste Treatment Process

A schematic representation of Lenox China's industrial waste treatment system is shown in Figure 5. Treatment is initiated at an equalization sump located next to the main plant building (Figure 6) where the waste stream is mixed and floculated with calcium sulfate to suspend all of the large solids prior to being sent to a clarifier. The clarifier serves as the 'primary floculator for the system and removes approximately 80 to 95 percent of the particulate load from the waste stream. This unit also serves as the feeder for the vacuum filter. Sludge collected by the clarifier is treated with diamonium phosphate which combines with soluble lead carbonate to form insoluble lead phosphate. The diamonium phosphate is added as a fine liquid spray to the sludge coating the drum of the vacuum filter in order to assure full penetration and complete dispersion. The resulting sludge is essentially dewatered and leachability tests indicate that it contains less than three-tenths of 1 ppm (part per million) of lead.

The remaining liquid in the clarifier is sent to the slip basin which

skimmer pump in the slip basin transfer. Wastewater to a polishing basin for final clarification prior to its release into the Tilton Road pond where it mixes with the effluent from the sanitary treatment plant and is monitored for chemical and biological quality. Sludge accumulating in the slip basin (primary clarifier) and polishing basin is periodically—pumped back to the vacuum filter. The treated and dewatered sludge removed from the site is not hazardous. Sludge is disposed of at a local landfill. The system handles approximately 85,000 gallons of wastewater daily and has been operating under NJPDES permit number NJ005177 since 1974. Moreover, a glaze washwater reclamation system which eliminates any further discharge of lead bearing materials to the slip basin was recently installed. A detailed description of the equipment used in this treatment processes is provided in Figure 5.

Cleaning and Maintenance Schedules

- The Rex clarifier (estimated capacity 15,000 gallons) is pumped out, cleaned and overhauled every five years. This is scheduled to be done in July 1983 during annual shutdown of the plant. If, at any time, the clarifier becomes cloqged with overfloculated sludge (polymer overfeed), the slip basin is pumped out and the sludge is broken up manually.
- The equalization sump (estimated capacity 3,600 gallons) is drained and cleaned once each year during the July plant shutdown.
 - The vacuum filter (estimated capacity 250 gallons) is drained and

yET VALSIS





* 01-11-04!

RCRA INSPECTION FOR

·	
Report Prepared for:	
Generator	
Transporter	
HWM (TSD) facility	
Copy of report sent to the facility	-
	Facility Information
Name:	LENOX CHWA INC (609)
Address:	TILTON POAD 641-3700
	POMONA, NJ.
County:	ATUNTIC
EPA ID#:	NJD 00232 5074
Date of Inspection:	2-2-83
ı	
	Participating Personnel
State or EPA Personnel:	WILLAM COWRY-NODEP-DWN
	feblier Office
Facility Personnel:	JOHN KINKELA - MEROF ENGINEERIN
· · · · · · · · · · · · · · · · · · ·	FACILITIES SYSTEMS + PLOGRAME
	The state of the s
Report Prepared by Name:	akum lasky
Agency:	
Telephone #:	609-859-2958
Approved for the Director by:	

Attachement

Summary of Findings

Facility Description and Operations
Company Process At Types of First
CHINA IN SITE IS A MARRIN PREUNCLY USED
FOR SETILIAN PLANT WASH WATER A SECTIONS FROM
A GERAGIATY & MULLIA THE REPORT IS ATTACHED WITHOR
DE SCRIBES THE USE AND CONTENT OF THIS BASIN.
A SCHEMATIC FLOW DIAGRAM FOR THE PLAN
CUBITE WATER. WHICH CONTAINS CEND 15 ATTACHER
THE LEARD CONTENT IS RENDERUD INSOLVATILE
- By AUDING DATE (DIAMENIAM PHOSPHATICE) TO
THE PRESSED FITTER CARE PRIOR TO DISPLEM
OF THIS SUDGE AT THE UXOBENE LANGELL
TOE SAUBOS ARC STORES IN DELINS
OUTSIDE ON PALLETS ON A PALLET AILEA.
LE GONTALINET S CON 10 10 10 10 10
THE DILLE STONE WE DEAD IS IN PLACE FOR
77 DECEM STONE +65 1/21
PLANT SCITCH MY DIMETED
FACILITY WAS

Describe the activities that result in the generation of hazardous waste.	
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ASPHANT COATING FROM CHUA. ASPHANT COATING APPLIED.	72
PROTEST CHIMA FROM DAMAGE DURING ESTERING PROCESS. CHIM	
15 DIPPED INTO TOE TANK - SETTED SWOKE	
FED DIRECTLY TO DRUM OUTSIDE LIA PIRELINE	
	-
	,
Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes)	
NOTIFIED FOR FOOL 9 DOOR	
FOOT - 40 FULL DRUMS OF TOE (SOLD)	_
SLUDGE IN STORME OUTSIDE ON	-
ASPHAT SURFACE - NO SECURARY	
CINTAINMENT AROUND DEUM	-
STORME AREA.	-
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T-4

TRICHLORO ETHYLENE 2621

MUTATION DATA:

mmo-sat 100 uL/plate

mma-sat 5 pph/2H

mma-smc 10 mL/L

AICHLOROETHANOL	TOXICITY DATA: 2 CODEN: orlest 1 D50:880 mg/kg JPETAB 78,340,43
CAS RN: 115208 NIOSH #: KM 3850000 af: C ₂ H ₃ Cl ₃ O; mw: 149.40	orl-rat LD50:880 mg/kg orl-dog LDLo:1200 mg/kg orl-cat LDLo:500 mg/kg orl-rbt LDLo:1100 mg/kg Orl-rbt LDLo:1100 mg/kg JPETAB 78,340,43 JPETAB 78,340,43
77 G-TR- Liquid. mp: 17.8°, bp: 150° @ 765 mm, d: 1.54 @ 25°/ 10°, vap. press: 1 mm @ 20°, vap. d: 5.16. 3-TR- SYNS: 2.2TRICHLOROETHANOL 2.2,2-TRICHLOROETHYL ALCOHOL HOL	Reported in EPA TSCA Inventory, 1980. THR: MOD via oral route. Disaster Hazard: When heated to decomp it emits tox fumes of Cl.
10XICITY DATA: 3-2 CODEN: 4,58	TRICHLOROETHYLAMINE NIOSH #: K:R-9850000 mf: C ₂ H ₄ Cl ₃ N; mw: 148.41 SYN: TCEA
WOCHN Reported in EPA TSCA Inventory, 1980. WOCHN HR. HIGH via ivn and ipr routes. MOD via oral route. I Position An anesthetic. MUT data. Toxicold Dangerous; see chlorides.	TOXICITY DATA: CODEN: mmo-asn 1700 umol/L SOGEBZ 6,220,70 THR: MUT data. Disaster Hazard: When heated to decomp it emits very tox fumes of Cl ⁻ and NO ₁ .
40,A46, RICHLOROETHENYLSILANE VA 10 pp 1 Carcin AS RN: 75945 ive: Mora: C ₂ H ₃ Cl ₃ Si; mw: 161.49	TRICHLOROETHYL CARBAMATE CAS RN: 107697 NIOSH #: FD 1750000 mf: C ₃ H ₄ Cl ₃ NO ₂ ; mw: 192.43
cinogenduming liquid. bp: 90.6°; d: 1.265 @ 25°/25°; flash p: t (NCIT 6°F. Analytic SH / TYNS: EP+	SYN: CARBAMIC ACID 2,2,2-TRICHLOROETHYL ESTER TOXICITY DATA: 3 CODEN: ipr-mus TDLo: 3250 mg/kg/13W-I JNCIAM 8,99,47 TFX: NEO
REAC OXICITY DATA: 2 CODEN:	THR: An exper NEO. MOD ipr. See also esters, carbamates. Disaster Hazard: When heated to decomp it emits very tox fumes of Cl ⁻ and NO _x . TRICHLORO ETHYLENE
quatic Toxicity Rating: TLm96: 100-10 ppm WQCHM* 4,-74. DOT: Flammable Liquid, Label: Flammable and Vol Liquid FEREAC 41,57018,76. Reported in EPA TSCA Inventory, 1980. #R: MOD orl, ihl, skn. A skn, eye irr. See also chlorosilanes.	CAS RN: 79-01-6 NIOSH #: KX 4550000 mf: C ₂ HCl ₃ ; mw: 131.38 Mobile liquid; characteristic odor of chloroform. d: 1.4649 @ 20°/4°; bp: 86.7°; flash p: 89.6°F; lel = 12.5%; uel = 90% @ above 30°; mp: -73°; fp: -86.8°; autoign. temp.: 788°F; vap. press: 100 mm @ 32°; vap. d: 4.53.
re Hazard: Dangerous; reacts violently with water, moist air. KJ 3950 baster Hazard: When heated to decomp it emits tox fumes of Cl ⁻ . Will react with water or steam to produce tox and corrosive fumes.	SYNS: ACETYLENE TRICHLORIDE 1-CHLORO-2,2-DICHLOROETH- YLENE 1,1-DICHLORO-2-CHLOROETH- YLENE DOW-TRI ETHYLENE TRICHLORIDE NCI-C04546 TRICHLOROETH-EN (DUTCH) TRICHLORAETHEN (GERMAN) TRI-CLENE TRICLORETENE (ITALIAN) VESTROL
24,541,63 24,541	SKIN AND EYE IRRITATION DATA: 3 CODEN: eye-hmn 5 ppm JOCMA7 2,383,60 skn-rbt 500 mg/24H SEV 28ZPAK -,28,72 eye-rbt 20 mg/24HSEV 28ZPAK -,28,72
mus; in	MILITATION DATA. CODEN.

CHLORAL, ETHYL HEMIACETAL

TRICHLOROACETALDEHYDE

MONOETHYLACETAL

NS:

p it emits WAL ALCOHOLATE

ORAL ETHYLALCOHOLATE

fp: -86.8°; autoign. @ 32°; vap. d: 4.53. LOORETHEEN (DUTCH) ILORAETHEN (GERMAN) LENE ORETENE (ITALIAN) ROL. CODEN: JOCMA7 2,383,60 28ZPAK -,28,72 28ZPAK -,28,72 CODEN: NIOSH* 5AUG77 ARTODN 41,249,79 MUREAV 48,173,77

Attachment 6-1

MEMO NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO	Lenox China File - RCRA Subtitl	e C Preliminary Assessment	-
FROM	Neil Jiorle, HSMS III	DATE	
SUBJECT_	On Site Inspection - (OSI)		-

On January 8, 1986, an on site inspection was conducted at Lenox China, Galloway Township, as part of the RCRA Subtitle C Grant commitment. Present from NJDEP were Richard Gervasio, Deborah Mazur and this writer.

At 0930 we met with plant engineer, Joe Skladanek, and began a tour of the Lenox facility. Preliminary monitoring equipment used by DEP personnel during the tour consisted of an HNU-Photoionization Detector, Foxboro-Organic Vapor Analyzer, and radiation detection survey meter. At no point during the inspection did the instruments register above background readings. Although some time was spent inside the main manufacturing building prior to leaving, the bulk of the inspection time was spent outside, concentrating on the Solid Waste Management Units located there.

We started at an area outside the northeast portion of the building, from which extends a pipe and valve. Periodically, the valve is opened to allow waste trichloroethylene (TCE) to drain out and collect in 30 gallon drums. The drums of TCE are then moved to a secure concrete storage pad near the glaze basin.

We went next to the glaze basin which we noted was adequately covered with a tarpaulin. According to Mr. Skladanek, this basin has not been used for some time and is being decommissioned according to the closure plan in their Part B Permit. At this time we were joined by Marilyn Gerhardt of the Atlantic County Health Department.

From here we went to the drummed TCE sludge storage area. The concrete and asphalt area is diked, relatively impermeable and drains to a sump pit that can collect spilled materials and pump them back into containers. This area appeared well maintained and very clean.

At this time, Mr. Skledanek indicated an underground pipe that carried material from the glaze basin to the slip basin is located in this area. Since the glaze basin is being decommissioned, this pipe is no longer in use. Mr. Sklandanek stated he has no information on this pipe.

We next went to the slip basin, the area appears well main- -- tained with no visible indications of contamination. The plant waste stream leaves the building at the north corner and is pumped

Attacherouth H-1

On Site Inspection Lenox Chir ile page two

to the clarifier/flocculator section of the onsite industrial waste treatment plant. Overflow from this unit goes to the slip basin where the small amount of suspended solids (total lead content less than 2%) settle out. A dredge in the slip basin periodically sends sludge from the slip basin back to the clarifier/flocculator for further treatment.

We then observed operations in the industrial waste treatment plant where the sludge is dewatered, rendered non-hazardous by the addition of a lead fixing agent (diammonium phosphate) formed into bricks and then landfilled.

A skimmer pump in the slip basin discharges water from the top of the slip basin to the polishing basin for final settling. This water should not contain any lead, or only negligible amounts. Water flows from here to a pond near Tilton Road, then under Tilton Road to a drainage ditch. Liquid from the pond is tested for several parameters, including lead, and a NJPDES Permit exists for the discharge to the drainage ditch.

At this point in time, we entered the facility and briefly observed operations. The site inspection was concluded at this time.

HS91:ec

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

The state of the s	S. S
Lenox China RCRA Subtitle C File	
FROM Neil Jiorle, HSMS III	DATE January 23, 1986
SUBJECT Permeabilities of Clay Soils	The second secon

It is understood by this writer that soil particles have good abilities to alternate certain hazardous materials and that lead is relatively immobile in soil. Also, that clays tend to have low permeabilities which will add to the attentuation abilities of the soil. Therefore, the conclusions drawn by Geraghty and Miller, and Lenox that putting the lead and clay waste into the lagoons will line the bottoms of the lagoons tend to be valid. But it should be mentioned that the permeabilities of the clay waste indicated in the Part B application may not accurately reflect the permeability of the material in situ.

It has been documentated that, for a variety of reasons, lab models of permeabilities may not always accurately reflect the permeabilities in real life situations. Lab permeabilities can vary by a factor of 100 or more from the actual permeabilities. I.

Recommended permeability for a clay lining material should be less than 10-7 cm/sec. The lab tested range for the Lenox waste clay is $6x10^{-6}$ to $3x10^{-7}$ cm/sec.

Source:

Effects of Organic Solvents on the Permeability of Clay Soils; PB83-179978, Pg. 49.

Att as I -1

ADM-012

MEM

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Lenox China FCRA Subtitle C File		
FROM Neil Jiorle, HSMS III	DATE January 23,	1986
SUBJECT Private Wells in Area		

To determine the potential for drinking water contamination, the writer reviewed well logs and maps for the Pomona area at the Division of Water Resources. There are approximately 65 private wells within one square mile of Lenox China.

Att 1-1

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

то	Lenox China File - RCRA Subtit	le C Preliminar	y Assessment	
FROM	- Neil Jiorle, HSMS III		DATE	
	On Site Inspection - (OSI)	-		·

On January 8, 1986, an on site inspection was conducted at Lenox China, Galloway Township, as part of the RCRA Subtitle C Grant commitment. Present from NJDEP were Richard Gervasio, Deborah Mazur and this writer.

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We went next to the glaze basin which we noted was adequately covered with a tarpaulin. According to Mr. Skladanek, this basin has not been used for some time and is being decommissioned according to the closure plan in their Part B Permit. At this time we were joined by Marilyn Gerhardt of the Atlantic County Health Department.

From here we went to the drummed TCE sludge storage area. The concrete and asphalt area is diked, relatively impermeable and drains to a sump pit that can collect spilled materials and pump them back into containers. This area appeared well maintained and very clean.

At this time, Mr. Skledanek indicated an underground pipe that carried material from the glaze basin to the slip basin is located in this area. Since the glaze basin is being decommissioned, this pipe is no longer in use. Mr. Sklandanek stated he has no information on this pipe.

We next went to the slip basin, the area appears well maintained with no visible indications of contamination. The plant waste stream leaves the building at the north corner and is pumped

Attachment H-1

On Site Inspection Lenox Chieff page two

to the clarifier/flocal mection of the onsite industrial waste treatment plant. We from this unit goes to the slip basin where the small suspended solids (total lead content less than 2%) setup and A dredge in the slip basin periodically sends sludge from the slip basin back to the clarifier/flocculator for further treatment.

We then observed operations in the industrial waste treatment plant where the sludge is dewatered, rendered non-hazardous by the addition of a lead fixing agent (diammonium phosphate) formed into bricks and then landfilled.

A skimmer pump in the slip basin discharges water from the top of the slip basin to the polishing basin for final settling. This water should not contain any lead, or only negligible amounts. Water flows from here to a pond near Tilton Road, then under Tilton Road to a drainage ditch. Liquid from the pond is tested for several parameters, including lead, and a NJPDES Permit exists for the discharge to the drainage ditch.

At this point in time, we entered the facility and briefly observed operations. The site inspection was concluded at this time.

HS91:ec

	POTE	NTIAL HAZARD	SITE	QUSTATE	0002325074		
SEPA	PART 1 - SITE		E INSPECTION NAME OF TOTAL NO. TO TO THE PROPERTY OF THE PROPE				
. SITE NAME AND LOCATE							
1 STE NAME LOSS COM	~~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	1	TREET, ROUTE NO., DA SPEC	DIFIC LOCATION IDENTIFIER			
Lenox China			ilton Road	& COUNTY	PATEO SALPHAN DE CONC		
Pomona (Gallowa	av Two)	N.	100240	Atlantic	CODE DIST		
O COCADBIATES		D TYPE OF OWNERS IN	100 (CO)	C. STATE D D. COUNTY			
39° 18"	74° 35' 52"	2 A PRIVATE DE). PEDEMAL	C. LIMBNON			
III. INSPECTION INFORMAT		63 YEARS OF OPERATION		A STATE OF THE STA			
OT DATE OF PUSPECTION	02 SITE STATUS EL ACTIVE	1954		ntumesionni			
NOVIN DAY YEAR DA AGENCY PERFORMED INSPEC	DINACTIVE	BEGANIN					
DA AGENCY PERFORMING INSPEC D. A. EPA D. B. EPA CON			C. MURSCEPAL D.D. MU	RECEPAL CONTRACTOR			
BE STATE DE STATE CO	WITHACTOR	== d == 0	G. OTHER	(Sooche)	AND SECTION		
OS CHEF INSPECTOR) Co	OS TITLE		OT ORGANIZATION	OS TELEPHONE NO.		
Neil Jiorle		HSMS III		NUMPHSMA	509 1984-3239		
00 OTHER DEPECTORS		10 TITLE		11 ORGANIZATION	12 TELEPHONE NO.		
Richard Gervasi	io .	Super Env	. Tech.	SAA	609 1984-3015		
Deborah Mazur		HSMS IV		SAA	(609 984-301		
Marilyn Gerhard	it -	Environme	ntal Spec.	Atlantic Co. Health Dept.	609 645-7700		
		- 					
<u> </u>			·				
					()		
13 SITE REPRESENTATIVES INTE	TVEWED	14 mus Plan	t ISADORESS		16 TELEPHONE NO		
Joe Skladanak		Engineer	Tilton Rd	/Pomona	609) 641-3700)		
					()		
	·				()		
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				·····	()		
BLOCK 453 LO	~~ 1	1					
	IS TEME OF INSPECTION	19 WEATHER CONDITI					
(Control of the Control of the Contr	9:00 A.M.		ld, windy				
IV. INFORMATION AVAILS							
RCRA PA		NJDEP/Hazar	dous Site Miti	igation Admin	03 TELEPHONE NO.		
04 PERSON RESPONSIBLE FOR	SITE INSPECTION FORM	05 AGENCY	OS ORGANIZATION	07 TELEPHONE NO.	OS DATE		
Neil Jiorle		HSMA	NJDEP - DWM	609-984-323	1 14 86 MONTH DAY YEAR		

					.		
		POT	ENTIAL HAZARI	DOUS WASTES		L IDENTIFICATIO	
&EF	DΛ	, ,	SITE INSPECT	ION REPORT		DI STATE OZ SINE M	maea
AFL	A		PART 2 - WASTE	INFORMATION_	-	<u></u>	
WASTE ST	ATES, QUANTITIES, AN	D CHARACTER	STICS				
	ATES (Cases of the corn)	02 WASTE QUANTI	TY AT SITE	OJ WASTE CHANCTES	STCS ICOOP HIM CO	, =	
□ A. SOLE	D. E. SLUPRY	(Macanagera O Report for	CONTRACTOR	MA TOXIC	C E SOLUBLE		
D S. POWDES	R. FINES (\$ F. LIQUED	TONS -		D C RADIOAC	TIVE. DG PLANNIA	BLE CIK REACTIVE	E ATBLE
		CUBIC YARDS -	[D PERSON		CM MOTAPI	PUCABLE
D D. OTHER	(Coodiy)	NO OF DYLMS .					
IL WASTE T	YPE	<u></u>					
CATEGORY	SUBSTANCE I	MAHE	01 GROSS AMOUNT	22 UNIT OF MEASURE	SS CONMENTS		
SLU	SLUDGE						
OLW	OILY WASTE						
SOL	SOLVENTS					·	
PSO	PESTICIDES						
occ	OTHER ORGANIC C	HEMICALS					
100	PHORGANIC CHEMI	CALS					
ACD	ACIDS						
BAS	BASES			١		···	
MES	HEAVY METALS		≥ 1600	tons			·
IV. HAZARD	OUS SUBSTANCES 1500	Accords to 000 1000		•			The ARABINE IN
DI CATEGORY	02 BURSTANCE	MARME	CO CAS NUMBER	04 STORAGE/DISE	OSAL METHOD	06 CONCENTRATION	CONCENTRATIO
MES	Lead	-	7439-92-1	Surface I	mpoundment		<u> </u>
SOL	Trichloroethy	/lene	79-01-6	Drums			<u> </u>
·							
							<u> </u>
***************************************							<u> </u>
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	OCKS (Son Assessed by CAS IN			T 0.2500=	01 FEEOST	TO HAME	02 CAS NUMBE
CATEGOR	O1 FEEDST	DCX NAME	02 CAS NUMBER	CATEGORY	UT FEEDS II		
FDS				FDS			
					•		

VI. SOURCES OF INFORMATION (Cite appeals) interested, e.g., state lead, sample prepriet. Posteril

RCRA PA - 1/15/86 N. Jiorle

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTH CATION

HAZARDOUS CONDITIONS AND INCIDENTE			
1 X A. GROUNDWATER CONTAMINATION	02 TOBSERVED (DATE:)	& POTENTIAL	S ALLEGED -
3 POPULATION POTENTIALLY AFFECTED:	D4 NARRATIVE DESCRIPTION	-· - ·	
Elevated lead levels have been	detected in the ground wate	er.	
	·	D POTENTIAL	ALLEGED
OT DE SURFACE WATER CONTAMINATION LE POPULATION POTENTIALLY AFFECTED:	02 TOBSÉRVED (DATE) 04 NARRATIVE DESCRIPTION	7 MINISTER	U ALLEMED
N/A			
N/A		Programmer:	
DI SEC. CONTAMINATION OF AIR	02 DOBSERVED (DATE:	S POTENTIAL	O ALLEGED
3 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
	· ·	. •	
Minimal potential during trick	nloroethylene transfer opera	tions.	
	1		
01 C D. FIRE/EXPLOSIVE CONDITIONS	02 COBSERVED (DATE:) D POTENTIAL	C ALLEGED
IJ POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	,	
N/A			· ·
	·		
DI SE DIRECT CONTACT DIS POPULATION POTENTIALLY AFFECTED:	02 DOBSERVED (DATE:) E POTENTAL	C ALLEGED
os roroccionro i pinazzi mi conas.			
There is a very limited notent	tial, if any, for direct con	tact with cont	aminated
There is a very limited potent sludge or with trichloroethyle	tial, if any, for direct con ene.	tact with cont	aminated
sludge or with trichloroethyle	ene.		
sludge or with trichloroethyle	ene.	tact with cont	aminated
sludge or with trichloroethyle 01 & F. CONTAMBUATION OF SCIL 03 AREA POTENTIALLY AFFECTED:	02 OBSERVED IDATE:	.) SE POTENTIAL	S ALLEGED
sludge or with trichloroethyle	02 OBSERVED IDATE:	.) SE POTENTIAL	S ALLEGED
sludge or with trichloroethyle 01 & F. CONTAMBUATION OF SCIL 03 AREA POTENTIALLY AFFECTED:	02 OBSERVED IDATE:	.) SE POTENTIAL	S ALLEGED
Sludge or with trichloroethyle of S.F. CONTAMBUATION OF SCH. OS AREA POTENTIALLY AFFECTED: Potential exists for lead was	ene. 02 © OBSERVED (DATE: 04 NARRATIVE DESCRIPTION te in surface impoundments t	o leach into t	S ALLEGED the soil.
Sludge or with trichloroethyle DI S.F. CONTAMBIATION OF SCIL DI AREA POTENTIALLY AFFECTED: Potential exists for lead was: DI S.G. DEDNKING WATER CONTAMINATION	02 OBSERVED IDATE:	.) SE POTENTIAL	S ALLEGED
Sludge or with trichloroethyle of S.F. CONTAMBUATION OF SCIL DO AREA POTENTIALLY AFFECTED: Potential exists for lead was: Of S.G. DRINKING WATER CONTAMINATION OR POPULATION POTENTIALLY AFFECTED:	ore. OR DOBSERVED (DATE:	o leach into t	C ALLEGED
Sludge or with trichloroethyle 11 & F. CONTAMBATION OF SOL 23 AREA POTENTIALLY AFFECTED: Potential exists for lead was: 11 & G. DRINKING WATER CONTAMINATION 13 POPULATION POTENTIALLY AFFECTED:	ore. OR DOBSERVED (DATE:	o leach into t	C ALLEGED
sludge or with trichloroethyle or of the contambiation of soil or area potentially affected: Potential exists for lead was or the contambiation of the c	ore. OR DOBSERVED (DATE:	o leach into t	C ALLEGED
Potential exists for private levels in ground water.	o2 Dosserved (DATE:	o leach into t a POTENTIAL aminated via	SALEGED The soil. DALEGED elevated lea
Potential exists for private levels in ground water.	ore. OR DOBSERVED (DATE:	o leach into t	C ALLEGED
Sludge or with trichloroethyle on & F. CONTAMBUATION OF SOIL ON AREA POTENTIALLY AFFECTED: Potential exists for lead was On & G. DEDNIKING WATER CONTAMBUATION ON POPULATION POTENTIALLY AFFECTED: Potential exists for private of levels in ground water. On & H. WORKER EXPOSURE FULLY AFFECTED:	O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION te in surface impoundments t O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION wells in area to become cont O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION	o leach into t aminated via e	C ALLEGED Che soil. D ALLEGED clevated lea
Sludge or with trichloroethyle O1 & F. CONTAMBUATION OF SOIL O3 AREA POTENTALLY AFFECTED: Potential exists for lead was: O1 & G. DFENKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: Potential exists for private levels in ground water. O1 & H. WORKER EXPOSURE BULLY O3 WORKERS POTENTIALLY AFFECTED: Potential for worker exposure	O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION te in surface impoundments t O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION wells in area to become cont O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION	o leach into t aminated via e	C ALLEGED Che soil. D ALLEGED clevated lea
Sludge or with trichloroethyle of St. Contambution of SCR. O3 AREA POTENTIALLY AFFECTED: Potential exists for lead was: 01 St. Drawing water contamination 03 POPULATION POTENTIALLY AFFECTED: Potential exists for private to levels in ground water. 01 St. Worker exposuremulary 03 Workers POTENTIALLY AFFECTED:	O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION te in surface impoundments t O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION wells in area to become cont O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION	o leach into t aminated via e	C ALLEGED Che soil. D ALLEGED clevated lea
Sludge or with trichloroethyle O1 & F. CONTAMBUATION OF SOIL O3 AREA POTENTALLY AFFECTED: Potential exists for lead was: O1 & G. DFENKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: Potential exists for private levels in ground water. O1 & H. WORKER EXPOSURE NUMBER O3 WORKERS POTENTIALLY AFFECTED: Potential for worker exposure	O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION te in surface impoundments t O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION wells in area to become cont O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION	o leach into t aminated via e	C ALLEGED Che soil. D ALLEGED clevated lea
Sludge or with trichloroethyle of St. Contambation of SCIL contambation	O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION te in surface impoundments t O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION wells in area to become cont O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION during trichloroethylene tr	o leach into the description of	CALLEGED Che soil. CALLEGED Clevated lead CALLEGED uring waste
Potential exists for private levels in ground water. Potential for worker exposure glaze removal operations.	O2 DOBSERVED (DATE: O4 NARRATIVE DESCRIPTION te in surface impoundments t O2 DOBSERVED (DATE: O4 NARRATIVE DESCRIPTION wells in area to become cont O2 DOBSERVED (DATE: O4 NARRATIVE DESCRIPTION during trichloroethylene tr	o leach into the description of	CALLEGED Che soil. CALLEGED Clevated lea CALLEGED uring waste
Potential exists for private levels in ground water. Potential for worker exposure glaze removal operations.	O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION te in surface impoundments t O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION wells in area to become cont O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION during trichloroethylene tr O2 OBSERVED (DATE: O4 NARRATIVE DESCRIPTION	o leach into to leach into to leach into to the leach into to the leach into the	CALLEGED Che soil. CALLEGED Clevated lea CALLEGED uring waste

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L	DENT	Velcyrion	
01	STATE	02 Sill (Mark 1962 SO)	
		~	

	INSPECTION REPORT FHAZARDOUS CONDITIONS AND INCIDE	ents	Sala
HAZARDOUS CONDITIONS AND INCIDENTS			
1 D. DAMAGE TO FLORA MARRATIVE DESCRIPTION	02 3 OBSERVED (DATE	POTENTIAL	C ALLEGED
N/A			
1 D K. DAMAGE TO FAUNA 4 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:) 2 POTENTIA	r C WTEUED
N/ A		•	•
1 D L CONTAMENATION OF FOOD CHAIN 4 NARRATIVE DESCRIPTION	02 3 OBSERVED (DATE	_) C POTENTIA	E ALLEGED
N/A			
	4.	~	
11 SM. UNSTABLE CONTAINMENT OF WASTES	02 OBSERVED (DATE:	_) BE POTENTIA	L . D ALLEGED
3 POPULATION POTENTIALLY AFFECTED:	D4 NARRATIVE DESCRIPTION		
Potential unstable containment	since surface impoundments	are unlined	l .
D1 SE N. DAMAGE TO OFFSITE PROPERTY D4 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:	_) & POTENTA	F D ALLEGED
01 [] O. CONTAMINATION OF SEWERS, STORM DRAINS, W 04 NARRATIVE DESCRIPTION		POTENTI	
N/A	•		
01 DP. BLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:	_) D POTENTS	AL DALLEGED
N/A			
OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OF	R ALLEGED HAZAROS		
	•		
II. TOTAL POPULATION POTENTIALLY AFFECTED:			
V. COMMENTS			
	·	-	
		· .	
V. SOURCES OF INFORMATION (Car screeks reterrances + p. c	pure fees, earnow brevyer, ropertu		
RCRA PA - 1/15/86 - N. Jiorle			

SEPA		ITE INSPECT		ON	I. IDENTIFICATION DI STATE DI SITE MANGER
IL PERMIT INFORMATION	_				
01 TYPE OF PERMIT ISSUED	D2 PERMIT NUMBER	DO DATE ISSUED	04 EXPRATION DATE	OS COMMENTS	*jamb*
	NJ0005177	1974	· ·		
D. B. UIC	1100003177				
□ C. AdR			4 ₁	`	
DD. RCRA	NJD002325074				·
DE. RCRA INTERM STATUS					
TF. SPCC PLAN					
DG. STATE					
H. LOCAL (Seesale)					
C I OTHER (NEW)					والمراب المراد والمراد
DJ. NONE			1	<u> </u>	
III. SITE DESCRIPTION			REATHENT ALCOHOL		GE OTHER
B A. SURFACE IMPOUNDMENT B. PILEB C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND E. TANK, BELOW GROUND S. F. LANDFILL G. LANDFARM H. OPEN DUMP	3 areas 6 dr 400 so		L INCOMERATION LUNDERGROUND BL CHEMICAL/PHYSIC BEOLOGICAL E WASTE OIL PROCE SOLVENT RECOVER OTHER RECYCLING H. OTHER	AL BENG IY	# A BUILDINGS ON SITE 4 00 ANEA OF SITE 56
Surface impoundment 1) 60'x90'x6' 2) 100'x200'x7' 3) 60' x 90' x 6					
IV. CONTAINMENT 01 CONTAINMENT OF WASTES (COME OF THE OF T					
() A. ADEQUATE, SECURE	E B. MODERATE	C. PADE	QUATE, POOR	🛛 D. INSE	CURE, UNSOUND, DANGEROUS
Drums and leak of Elevated lead leak (parking lot)	containment area	pose litt detected	le or no ris	sk to env iter bene	rironment. eath landfill area
V. ACCESSIBILITY		····			
01 WASTE EASTLY ACCESSIBLE: 02 COMMENTS	YES RINO				

EBA 509M 2070-13 (7-81)

VI. SOURCES OF INFORMATION (Can procede re

RCRA - PA - 1/15/86 - N. Jiorle

						LIDEA	TIFICATION	
SEPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 · WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA				TE D2 SITE NUMBER	i A		
	PART 5 - WATER	, DEMOGRAPHIC	C, AND ENV	/IRONME	NTAL DATA			
IL DRINKING WATER SUPPLY								
DI TYPE OF DRINGING SUFFLY		O2 STATUS				عد - ب	DESTANCE TO SITE	
SURFACE	WELL	ENDANGERE		-	IONITORED		71	
COMMUNITY A D	6. 3	A.O D.D	8. C E. C		C. X F. X	8.	- 2 - 1	roi) roi)
NON-COMMUNITY C. D	D. 🕏	<u> </u>		'				
IIL GROUNDWATER							***************************************	
01 GROUNDWATER USE IN VICINITY (Character)	ER R. DADAGEG		D c. ⇔	MONERCIA:	NOUSTRIAL FREGAT	non C	D. NOT USED, UN	LISEABLE
C A. ORLY SOURCE FOR DRINKING	(Carpo carposa carpos	CUSTRAL PROGATIO		and contracting	net out			
02 POPULATION SERVED BY GROUND WA	ATER		03 DISTANCE	TO NEARES	RETAW ENDINGED TO	WELL	<1	(mi)
D4 DEPTH TO GROUNDWATER	OS DIRECTION OF GRE	OLINOWATER FLOW	DS DEPTH TO		OF POTENTIAL YIE	ور	DE BOLE BOURC	E AQUETER
10	North -		OF CONCE	EF8N (11)	OF ACLEPTER	(000)	D YES	□ NO
						_16,	<u></u>	
ON DESCRIPTION OF WELLS remain comp). Cayon, <i>and</i> Bacans According							
Production,	monitoring	and drinkir	ng water	•				
10 RECHARGE AREA			11 DISCHARG	DE ARSA			,	
☐ YES COMMENTS	•		□ YES	COMMENT	13		,	
IV. SURFACE WATER			مــــــــــــــــــــــــــــــــــــ					
01 SURFACE WATER USE (Chest and								
C) A. RESERVOR, RECREATION DRINKING WATER SOURCE		ON. ECONOMICALL' UNT RESOURCES	Y 🗅 C. C	COMMERCE	IAL INDUSTRIAL	٥	D. NOT CURREN	MLY USED
02 AFFECTED/POTENTIALLY AFFECTED	ACCRES OF WATER		***************************************				<u> </u>	
NAME:					AFFECTE	٥.	DISTANCE TO	SATE
						-		(mil)
						-		(ml)
								(mi)
V. DEMOGRAPHIC AND PROPER	TY INFORMATION							
01 TOTAL POPULATION WITHEN	· · ·			°	2 DISTANCE TO NEA	rest pop	KOTAJU	
ONE (1) MILE OF SITE 1	B	E THREE C	(3) MILES OF	_ 1	_<	1	imi)	
					EST OFF-SITE BUILDS	-0		
03 NUMBER OF BUILDINGS WITHON TWO	2) M9_23 or ans			# 16 no-			_ [m]	•
OS POPULATION WITHEN VICENTY OF SITE	E (Pronto contino cocorcio	من مستعدد من من من		- * * * * * * * * * * * * * * * * * * *	, écrisoly possesses estan	(FC)	,	
				-	•			
Direct condensités								
Rural agricultu	irai area				•			
	•					•		
							•	

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		_	# W	
		-		
	_		_	
*				

I. IDENT	IFICAT	ION
DI STATE	OS PLE	MUNISER

ŞEPA		CTION REPORT HIC, AND ENVIRONMENTAL DAT	O1 STATE OZ SITE NUMBER
VI. ENVIRONMENTAL INFORMA			
01 PERMEABILITY OF UNSATURATED Z	ONE (Creates)9 cm/boc	□ C. 10 ⁻⁴ = 10 ⁻³ cm/sec	TER THAN 10-9 Emisses
02 PERMEABILITY OF BEDROCK (Cooper A. IMPERO Made Per		BLE D C RELATIVELY PERMEABLE (D. VERY PERMEABLE
03 DEPTH TO BEDROCK	D4 DEPTH OF CONTAMINATED SOC ZONE 10 1 PRI	C8 50u. pri	
06 NET PRECIPITATION 24 (m)	2.5 (m)	OS SLOPE SITE SI OPE DIRECTION OF SI	
SITE IS INYEAR FLO		IRIER ISLAND, COASTAL HIGH HAZARD AI	REA, RIVERINE FLOODWAY
I I DISTANCE TO WETLANDS IS and RESERVED ESTUARINE	OTHER	12 DISTANCE TO CRITICAL HABITAT as and	(FE)
A(mi)	8(ml)	ENDANGERED SPECIES:	
agricultural are	inelands area. The ter a. The facility is the his area tends to be ve	rain is basically flat only major industry i	. It is a rural, n the immediate
•			
•		•	
<u>.</u>		····	
VII. SOURCES OF INFORMATION	ON (Cae execute roturnous, e.g., sure true, seriors and	yee, naaraj	
RCRA - PA - 1/15	5/86 N. Jiorle		

nii organizik omaniarani		P	OTENTIAL HAZARDOUS WASTE SITE	L IDENTIFIC	
GLPA	· ·		SITE INSPECTION REPORT RT 6 - SAMPLE AND FIELD INFORMATION	0. 31212	PLF WINGEN
IL SAMPLES TAK	EN .	•			
SAMPLE TYPE	G	NUMBER OF SAMPLES TAKEN	02 SAMPLES BEAT TO		DS ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			No samples taken		
SURFACE WATE	R	<u></u>			
WASTE					
AIR					ļ
RUNOFF					-
8PLL					
.103					
VEGETATION					
OTHER					
BL FIELD MEASU		OS COMMENTS	·		
Foxboro -	- OVA		ground levels were measured		
HNU - PI	·	(1	H H H H		
IV. PHOTOGRAP	HS AND MAPS				
DI TYPE DI GRO	UNIO 🗆 AEREAL		02 IN CUSTODY OF	BON OF PROPERTY.	
O YES	04 LOCATION	-	N.JDEP-DHWM-BHWR		
V. OTHER FIELD	DATA COLLEC	TED Present automo			
				•	
		••			•

VI. SOURCES OF INFORMATION (CAN EXPOSED FOR

\$	P	SITE INSPE	ARDOUS WASTE SITE CTION REPORT ER INFORMATION	I. IDENTIFIC	
IL CURRENT OWNER(S)			PARENT COMPANY		
Lenox China Divn., Le		02 D+8 MARABER	Lenox, Inc.	0	9 D+ 8 MAMBER
CISTREET ADONESS (P.O. Son. 1909. SEL) Tilton Road		04 BIC CODE	Tilton Road	-	11 SIC COOS
OS CITY	OG STATE	07 ZP COOE	12 CITY	13 STATE 1	A 20 COOL
Pomona	NJ	08240	Pomona	N.1	08240
O1 MAME		02 D+B RUNABER	DE NAME	1	9 D+8 NLMBER
		04 SC CODE	Brown-Foreman Dist	Titers col	1184C COD€
DE STREET ADDRESS P.O. DEL POP. CEL		on section	TO STREET ADDRESS IN C SEE NOT . MIS		
06 GTY	06 STATE	07 ZIP CODE	12 017	13 STATE	14 ZP COOE
O1 MAMS		02 D+8 NUMBER	OS NAME	,	FEMALIN E+C ex
0.3 STREET ADDRESS P. O. bea. MPD P. com.		04 SIC COOE	10 STREET ADDRESS (P 0. box. 1970 4, ess.)	•	118/C COOE
OS CITY	OS STATE	07 ZP CODE	12 CTY	13 STATE	14 ZP CODE
O1 MANE		D2 D+8 NUMBER	DA MAME		D9 D+ B XLAMBER
03 STREET ADDRESS (P.O. Box. 840 F. COL.)	-	04 SIC CODE	10 STREET ADDRESS (P.O. Box, APD F. ont.)	<u></u>	118C CODE
OS CITY	OG STATE	07 ZIP CO06	12 CITY	13 STATE	14 ZIP CODE
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01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	O2 DATE	03 AGENCY
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POTENTIAL HAZARDOUS WASTE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

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OI PAST REGULATORY/ENGORCEMENT ACTION IN YES IN NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

IIL SOURCES OF INFORMATION (Can appendix references, e.g., state thes. surpos analysis, reported

CAS9- 1889

Louis A. Fantin, Esq. First Assistant General Counsel, Assistant Secretary Lenox Incorporated 100 Lenox Drive Lawrenceville, New Jersey 08648

Re: RCRA Facility Assessment (RFA) Report for Lenox China, Inc., Pomona, New Jersey

Dear Mr. Fantin:

As per your request, enclosed for your information is a copy of the final RCRA Facility Assessment (RFA) report for Lenox China, Inc. in Pomona, New Jersey.

The RFA report identifies the Solid Waste Management Units (SWMUs) at the Lenox China facility, which have been found during the Preliminary Assessment (PA), the Visual Site Inspection (VSI), and other inspections conducted at the facility. In addition, the report identifies the SWMUs, which are subject to further studies during the RCRA Facility Investigation (RFI). I would like to point out that the SWMUs listed in the RFA report may not represent the complete universe and any additional SWMUs found must also be investigated by Lenox China for potential releases and if necessary, for cleanup.

If you have any questions on this document, contact me at (212) 264-4479 or Andrew Park of my staff at (212) 264-8684.

Sincerely yours,

Barry Tornick, Chief New Jersey Facilities Section Hazardous Waste Facilities Branch

Enclosure Wo enclosure
01/08/99-KOM

cc: L. Grayson, Chief
Bureau of Planning and Assessment, NJDEP

Irene Kropp, Chief Bureau of Groundwater Pollution Abatement, NJDEP

bcc: Andrew Park
Barry Tornick

10

RCRA PRIORITIZATION SYSTEM SCORING SUMMARY

FOR

(Name of Facility) Lenox China

EPA SITE NUMBER: (Number) NJD 002 325074

(City (State) Pomona, NJ

SCORED BY: <u>(Name)</u> Andrew Park

OF <u>(Organization)</u> 2AWM-HWF

ON <u>(Date)</u> 8/19/91

GROUND WATER ROUTE SCORE: (SCORE)

SURFACE WATER ROUTE SCORE: (SCORE)

AIR ROUTE SCORE : (SCORE)

ON-SITE SCORE (SCORE)

MIGRATION SCORE : (SCORE)

WS-1 GROUND WATER ROUTE

Α.	Is the	ere an observed release	? ($\frac{\underline{\underline{Yes}}}{(45)}$	<u>No</u> (0)	<u>Possib</u> (10)	<u>le</u>			-
В.	Rout	e Characteristics					•			
	1 b.	Depth to Aquifer (f	t.)	<u>0-20</u> (6)	21-75 (4)	<u>76-150</u> (2)	<u>150+</u> (0)			• .
v	2b.	Net Precipitation (in)	<u><-10</u> (0)	-10 to (2)	<u>+5</u>	+5 to (4)	+15	>15 (6)	
	3b.	Physical State			Unstab Solid (1)	le -	Powde Ash (2)	er, -	Liquid Slud (3)	
C.	Conta	inment		<u>Verv G</u> (0)	<u>ood</u>	<u>Good</u> (1)	<u>Fair</u> (2)	<u>Poor</u> (3)		
D.	Waste	Characteristics					T_			
	ld.	Chemical name or wa	aste code	number		(Nam	e or Ni	<u>imber)</u>	_	
	2d	Toxicity/Persistence		<u>0</u> (0)	<u>3</u> (3)	<u>6</u> (6)	9 (9)	12 (12)	15 (15)	18 (18)
	3d.	Quantity known?	•	Yes (No)					\ -/
		Yes? Enter amount	Cu yds o Drums	or tons		+ 4 = c	ı yds)		• .	
			Total	2	add abo	ove)			٠.	
		No? Is amount like Is amount like Are large store	ly to be is	arge?		sent?	Yes (1) Yes (4) Yes (8) Yes 2	allowed)	No No No	
E.	Target	s	•					·		
	le.	Groundwater use:	Drinking Possible Agriculti Quality i Quality n	drinkin ure or in mpacte	g water ndustria d? acted?	·? al?	Yes (5) Yes (4) Yes (3) Yes (2) Yes (0)' e yes a	llowed)	No No No No No	
	2e.	Distance to intake (mi	les) <u><</u>	1/2	/2 to 1 (3)		22	2 to 3 (1)	<u>≥3</u> (0)	

Note:
* Cannot be used of A = 45

CALCULATE GROUND WATER SCORE (Sq.)

If A = 45, then
$$S_{gH}$$
 equals: $\frac{A \times (2d + 3d) \times (1e^2 + 2e^2)}{479.7} = S_{gH}(a)$

If A = 0 or i0, then S_{gw} equals:

[
$$(1b + 2b + 3b) \times C$$
] + A = Q if Q >45, then Q = 45
Q x $(2d + 3d) \times (1e^2 + 2e^2) / 479.7 = S_{gw}$

To calculate 3d:

If Total Equals	Then 3d Equals
l to 10 cu vds	. 1
11 to 62	<u>2</u>
63 to 125	3
126 to 250	4
251 to 625	5
626 to 1,250	6
1,251 to 2,500	7
2,500 or more	8

If le or 2e equals zero, then $(1e^2 + 2e^2) = zero$

If A = 45, then go to D and E

If A = 0 or 10, then go to B, C, D, and E

Note:

The value 479.7 standardizes the ground water route score to a value between 0 and 100.

WS-2 SURFACE WATER ROUTE

Α. Releases

la. Is there an observed release? Yes

2a. Is there a permitted outfall?

<u>No</u> (0) Yes (5)

Have there been permit violations? 3a.

В. Route Characteristics

lb. Facility Location Flood-Prone Area_ (3)

100-year Flood Plain (2)

(1)

ΩЪ. 24-hour Rainfall (in.)

<u><1.0</u> (0)

(1)

2.1 to 3.0

3b. Distance to surface water (miles)

1/4 to 1

<u>≥2</u> (0)

4b. Physical State

Stable Unstable Solid Solid (0)

Powder.

Liquid. Gas Sludge

C. Containment

Very Good

D. Waste Characteristics

Chemical name or waste code number ld.

CE, Lead (Name or Number)

2d. Toxicity/Persistence Value

<u>0</u> (0)

3d. Quantity known?

<u>Yes</u>

Enter amount Cu yds or tons Yes? Drums (#) (+ 4 = cu yds)

Total

(add above)

No? Is amount likely to be small Is amount likely to be large?

Yes (1) Yes (4) No No

Are large storage or disposal areas present?

Yes (8)

No

(only one yes allowed)

SURFACE WATER ROUTE - Continued

E. Targets

le.	Surface Water use:	Drinking water? Possible drinking water? Recreation? Agriculture or industrial? Quality impacted? Quality not impacted but within 3 miles? None within 3 miles?	Yes (5) Yes (4) Yes (3) Yes (2) Yes (1)* Yes (0)* (only one yes	No No No No No No allowed)
2e.	Distance to intake or contact point (miles)	$\frac{\sqrt{1/2}}{(4)} \frac{1/2 \text{ to } 1}{(3)}$	$\frac{1 \text{ to } 2}{(2)} \frac{2 \text{ to } 3}{(1)}$	<u>>3</u> (0)
3e.	Distance to sensitive environment (miles)	$\frac{<1/2}{(6)}$ $\frac{1/2 \text{ to } 1}{(4)}$	$(\frac{1 \text{ to } 2}{(2)})$	<u>≥2</u> (0)

Note:
* Cannot be used if A = 45

CALCULATE SURFACE WATER SCORE (S_{SH})

If
$$1a = 45$$
, then S_{SH} equals: $1a \times (2d + 3d) \times (1e^2 + 2e^2 + 3e) / 549.9 = $S_{SH}(a)$
If $1a = 0$, then S_{SH} equals:$

$$[(1b + 2b + 3b + 4b) \times C] + (2a + 3a) = Q \text{ if } Q > 45, \text{ then } Q = 45$$

$$Q \times (2d + 3d) \times (1e^2 + 2e^2 + 3e) / 549.9 = S_{SH}$$

To calculate 3d:

If Total Equais	Then 3d Equals
1 to 10 cu yds 11 to 62 63 to 125 126 to 250 251 to 625 626 to 1,250 1,251 to 2,500 2,500 or more	1 2 3 4 5 6 7 8

If le or 2e equals zero, then $(1e^2 + 2e^2) = zero$

If A = 45, then go to D and E

If A = 0 or 10, then go to B, C, D, and E

Note:

The value of 549.9 standardizes the surface water route score to a value between 0 and 100.

WS-3 AIR ROUTE

A. Releases

	la.	Is there an observed, unper	mitted, ongoing re	lease?	$\frac{\text{Yes}}{(45)}$ $(\frac{\text{No}}{(0)})$
	2 a.	Does the facility have an ai	$\frac{\text{Yes}}{\text{(5)}} \left(\frac{\text{No}}{\text{(0)}}\right)$		
	3a.	Have there been any permit complaints by residents?	t violations or odor	,	$\frac{\text{Yes}}{(10)} \frac{\text{No}}{(0)}$
***	4a.	Can contaminants migrate i	nto air?		<u>Yes</u> <u>No</u> (0)
	5a.	Containment	7	Very Good Good	$\frac{Fair}{(2)}$ $\frac{Poor}{(3)}$
В.	Waste	Characteristics			
	16.	Chemical name or waste coo	ie number	TCE Name or Number	<u> </u>
	2 b .	Toxicity $\frac{0}{(0)}$	$\frac{1}{(3)}$ $\frac{2}{(6)}$ (9)	<u>3</u> 9)	
	3ъ.	Quantity known?	Y	(es No	
		Yes? Enter amount	Cubic yards or to Drums	ons <u>(#)</u> <u>(#)</u>	(+ 4 = cu. yds.)
			Total	(add above)	
-		No? Is amount likely to b Is amount likely to b Are large storage or	e large?	Yes (Yes (Yes (Yes (Yes (Yes (Yes (Yes ((1) No (4) No (8) No

C. Targets

Ic. Population

Are residences located within four miles? Are other industries located within four miles? Are agricultural lands located within four miles? Any other situation. Yes (25) No
Yes (20) No
Yes (15) No
Yes (10) No
(only one yes allowed)

(only one yes allowed)

2c. Distance to sensitive environments (miles)

$$\frac{< 1/2}{(6)}$$
 $\frac{1/2 \text{ to } 1}{(4)}$ $(\frac{1 \text{ to } 2}{(2)})^{2}$

CALCULATE AIR SCORE (Sa)

If 1a = 45, then A = 45

If 1a = 0, then $A = (2a + 3a) + (4a \times 5a)$

 S_a equals: A x (2b + 3b) x (1c + 2c) / 237.15 = S_a (a)

To calculate 3b:

If Total Equais	-	Then 3b Equais
1 to 10 cu. yds 11 to 62 cu. yds 63 to 125 cu. yds 126 to 250 cu. yds 251 to 625 cu. yds 626 to 1,250 cu. yds 1,251 to 2,500 cu. yds 2,500 or more cu. yds	٠.	1 2 3 4 5 6 7 8

The value 237.15 standardizes the air route score to a value between 0 and 100.

WS-4 ON-SITE CONTAMINATION

Access to site Inaccessible Unlimited Access B. Is there observed surface soil contamination? C. Containment Very Good D. Waste characteristics Chemical Name or Waste Code Number Toxicity/Persistence Value $\frac{1}{(1)}$ E. **Targets** Distance to residential areas le. 2e. Is there on-site sensitive environment?

CALCULATE ON-SITE SCORE (S_o)

If A = 0, then $S_o = B \times D \times (1e + 2e)/21$ If $A \neq 0$, then $S_o = A \times (B + C) \times D \times (1e + 2e)/21^{(a)}$ If B + C > 25, then B + C = 25

⁽a) The value 21 standardizes the on-site route score to a value between 0 and 100.

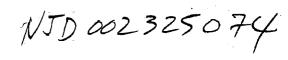
CALCULATE TOTAL SITE MIGRATION SCORE (S_)

Total site score equals:

$$S_{m} = \sqrt{S_{gw}^{2} + S_{sw}^{2} + S_{a}^{2} + S_{o}^{2}} / 2^{(a)}$$

Note:

⁽a) The value 2 standardizes the site migration score to a value between 0 and 100.





The Pinelands Commission

P.O. Box 7, New Lisbon, N.J. 08064 (609) 894-9342

January 23, 1995

Frank F. Faranca, Case Manager
NJDEP
Division of Responsible Party Site Remediation
Bureau of Federal Case Management
CN 028
401 East State Street
Trenton, NJ 08625-0028

Please Always Refer To This Application Number

RE: App. No. 85-0666.05 Block 423, Lot 1 Lenox China Galloway Township ENVIRONMENTAL PROTECTION ACERS 38 II

Dear Mr. Faranca:

This is in response to the December, 1994 RCRA Facility Investigation Addendum Report regarding the clean-up of hazardous substances on the above referenced site.

Please be advised that the report does not raise any significant issues with respect to the standards of the Pinelands Comprehensive Management Plan. It will be necessary for Lenox China to submit copies of the Corrective Measures report and any additional correspondence with DEP regarding this matter.

If you have any questions, please contact me.

Sincerely,

Todd DeJesus

Environmental Specialist

cc: Andrew Park

Stephen Lichtenstein